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Pseudodoxia Epidemica:

OR,

ENQUIRIES

Into very many Received

TENENTS

And commonly prefumed

TRUTHS,

Together with the

Religio Medici.

By Thomas Brown Knight, M. D.

The Sixth and Last Edition,

Corrected and Enlarged by the Author, with many Explanations, Additions and Alterations throughout.

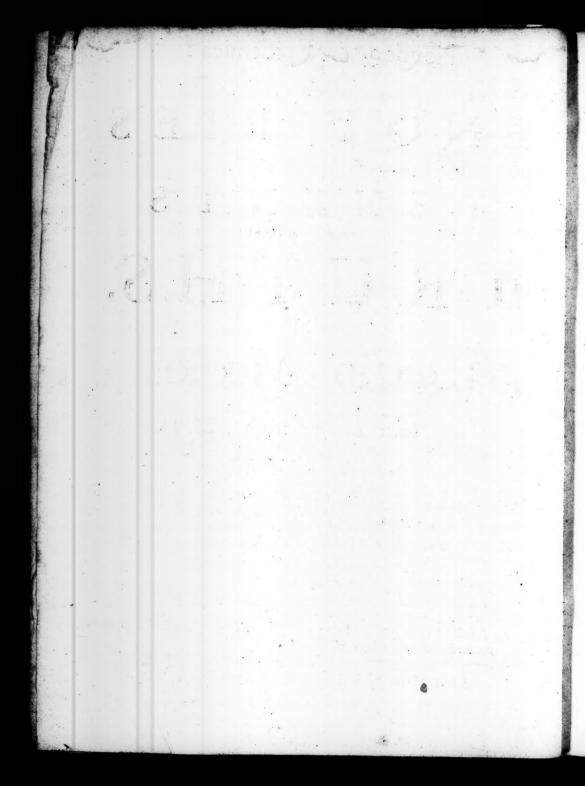
TOGETHER

With many more Marginal Observations, and a Table
Alphabetical at the end.

JUL. SCALIG.

Ex Libris colligere qua prodiderant Authores longe est periculosissimum; Rerum ipsarum cognitio vera è rebus ipsis est.

LONDON, Printed by J. R. for Nath. Ekins, 1672.



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TO THE

READER.

Ould Truth dispense, we could be content, with Plato, that knowledg were but remembrance; that intellectual acquisition were

Impressions but the colouring of old stamps which stood pale in the soul before. For what is worse, knowledge is made by oblivion, and to purchase a clear and warrantable body of Truth, we must forget and part with much we know. Our tender Enquiries taking up Learning at large, and together with true and assured notions, receiving many, wherein our reviewing judg-

judgments do find no fatisfaction. And therefore in this Encyclopædie and round of Knowledge, like the great and ex-emplary Wheels of Heaven, we must observe two Circles: that while we are daily carried about, and whirled on by the fwing and rapt of the one, we may maintain a natural and proper course, in the slow and sober wheel of the other. And this we shall more readily perform, if we timely furvey our knowledge; impartially singling out those encroachments, which junior compliance and popular credulity hath admitted. Whereof at present we have endeavoured a long and serious Adviso; proposing not only a large and copious List, but from experience and reason attempting their decisions.

And first we crave exceeding pardon in the audacity of the Attempt, humbly acknowledging a work of such concernment unto truth, and difficulty in it self, did well deserve the conjunction of many heads. And surely more ad-

vantageous had it been unto Truth, to have fallen into the endeavors of some co-operating advancers, that might have performed it to the life, and added authority thereto; which the privacy of our condition, and unequal abilities cannot expect. Whereby notwith-standing we have not been diverted; nor have our solitary attempts been so discouraged, as to dispair the favourable look of Learning upon our single and unsupported endeavours.

Nor have we let fall our Pen, upon discouragement of Contradiction, Unbelief and Difficulty of dissipation from radicated beliefs, and points of high prescription, although we are very sensible, how hardly teaching years do learn, what roots old age contracteth unto errors, and how such as are but acorns in our younger brows, grow Oaks in our elder heads, and become inflexible unto the powerfullest arm of reason. Although we have also beheld, what cold requitals others have found

in their several redemptions of Truth; and how their ingenuous Enquiries have been dismissed with censure, and

obloquie of singularities.

Some confideration we hope from the course of our Profession, which though it leadeth us into many truths that pass undiscerned by others, yet doth it disturb their Communications, and much interrupt the office of our Pens in their well intended Transmissions. And therefore furely in this work attempts will exceed performances; it being composed by snatches of time, as medical vacations, and the fruitless importunity of Vroscopy would permit us. And therefore also, perhaps it hath not found that regular and constantstile, those infallible experiments and those assured determinations, which the subject sometime requireth, and might be expected from others, whose quiet doors and unmolested hours afford no such distractions. Although whoever shall indifferently perpend the

Inspection of Urines.

the exceeding difficulty, which either the obscurity of the subject, or unavoidable paradoxology must often put upon the Attemptor, he will easily discern, a work of this nature is not to be performed upon one legg; and should smel of oyl, if duly and deser-

vedly handled.

Our first intentions considering the common interest of Truth, resolved to propose it unto the Latine republique and equal Judges of Europe, but owing in the first place this service unto our Country, and therein especially unto its ingenuous Gentry, we have declared our self in a language best conceived. Although I confess the quality of the Subject will sometimes carry us into expressions beyond meer English apprehensions. And indeed, if elegancy still proceedeth, and English Pens maintain that fiream, we have of late observed to flow from many; we shall within few years be fain to learn Latine to understand English, and a work will prove CERC

prove of equal facility in either. Nor have we addressed our Pen or Stile unto the people, (whom Books do not redress, and are this way incapable of reduction) but unto the knowing and leading part of Learning. As well understanding (at least probably hoping) except they be watered from higher regions, and fructifying meteors of Knowledge, these weeds must lose their alimental sap, and wither of themselves. Whose conserving influence, could our endeavours prevent; we should trust the rest unto the sythe of Time, and hopefull dominion of Truth.

We hope it will not be unconsidered, that we find no open tract, or constant manuduction in this Labyrinth, but are oft-times fain to wander in the America and untravelled parts of Truth. For though not many years past, Dr. Primrose hath made a learned Discourse of vulgar Errors in Physick, yethave we discussed but two or three thereof. Scipio Mercurii hath also lest an excellent

tract

tract in Italian, concerning popular Errors, but confining himfelf only unto those in Physick, he hath little conduced unto the generality of our doctrine. Laurentius Ioubertus, by the same Title led our expectation into thoughts of great relief; whereby notwithstanding we reaped no advantage; it answering scarce at all the promise of the inscription. Nor perhaps (if it were yet extant) should we find any farther Assistance from that ancient piece of Andreas, pretending the same of the Title. And therefore we are often con-100, Athenzi strained to stand alone against the 16.7. strength of opinion, and to meet the Goliah and Giant of Authority, with contemptible pibbles, and feeblearguments, drawn from the scrip and slenderstock of our selves. Nor have we indeed scarce named any Author whose name we do not honour; and if detraction could invite us, discretion surely would contain us from any derogatory intention, where highest Pens and frienfriendiest eloquence must fail in commendation.

And therefore also we cannot but hope the equitable considerations, and candour of reasonable minds. We cannot expect the frown of Theology herein; nor can they which behold the present state of things, and controversie of points so long received in Divinity, condemn our sober Enquiries in the doubtfull appertinancies of Arts, and Receptaries of Philosophy. Surely Philologers and Critical Discoursers, who look beyond the shell and obvious exteriours of things, will not be angry with our narrower explorations. And we cannot doubt, our Brothers in Phyfick (whose knowledge in Naturals will lead them into a nearer apprehension of many things delivered) will friendly accept, if not countenance our endeavours. Nor can we conceive it may be unwelcome unto thosehonoured Worthies, who endeavour the advancement of Learning: as being likely to find a clearer progression, when so many rubs are levelled, and many untruths taken off, which passing as principles with common beliefs, disturb the tranquility of Axioms, which otherwise might be raised. And wise men cannot but know, that arts and learning want this expurgation: and if the course of truth be permitted unto its self; like that of time and uncorrected computations, it cannot escape many errors, vyhich duration still enlargeth.

Lastly, we are not Magisterial in opinions, nor have we Dictator-like obtruded our conceptions; but in the humility of Enquiries or disquisitions, have only proposed them unto more ocular discerners. And therefore opinions are free, and open it is for any to think or declare the contrary. And we shall so far encourage contradiction, as to promise no disturbance, or re-oppose any Pen, that shall Fallaciously or captiously resute us; that shall only lay hold of our lapses, single out Digressions,

Coro-

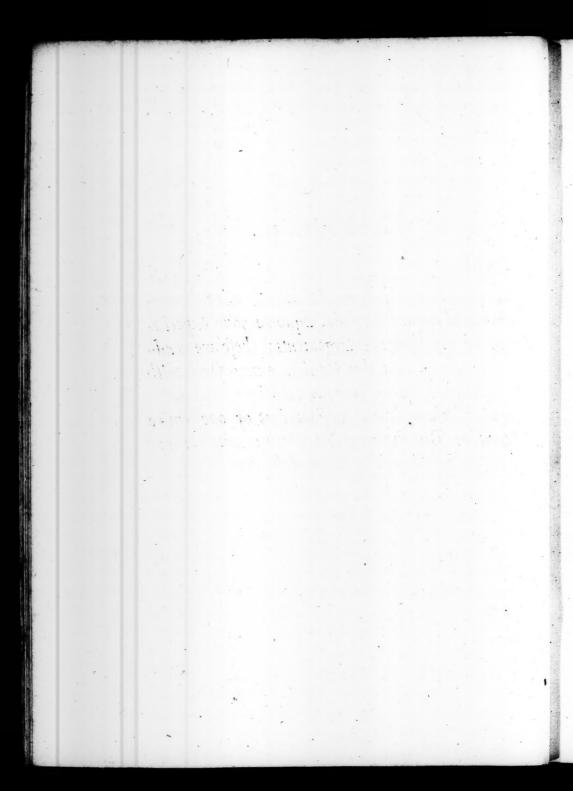
Corollaries, or Ornamental conceptions, to evidence his own in as indifferent truths. And shall only take notice of fuch, whose experimental and judicious knowledge shall folemnly look upon it; not only to destroy of ours, but to establish of his own; not to traduce or extenuate, but to explain and dilucidate, to add and ampliate, according to the laudable custom of the Ancients in their sober promotions of Learning. Unto whom notwithstanding, we shall not contentiously rejoin, or only to justifie our own, but to applaud or confirm his maturer affertions; and shall confer what is in us unto his name and honour; Ready to be swallowed in any worthy enlarger: as having acquired our end, if any way, or under any name we may obtain a work, so much desired, and yet desiderated of Truth.

Thomas Brown.

The Postscript.

Readers,

TO enform you of the Advantages of the prefent Impression, and disabuse your expectations of any future Enlargements; these are to advertise thee, that this Edition comes forth with very many Explanations, Additions, and Alterations throughout, besides that of one entire Chapter: But that now this Work is compleat and perfect, expect no further Additions.





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That the Tower of Babel was erected against a second Deluge	chap.6.
Of the Mandrakes of Leah.	chap.7.
Of the three Kinzs of Collein.	chap.8.
Of the food of John the Baptist in the wilderness.	chap.9.
Of the conceit that John the Evangelist should not die.	chap. 10.
Of some others more briefly.	chap.11.
	of

Of the cessation of Oracles.			chap.12.
Of the death of Aristotle. Of the wish of Philoxenus to have the neck of	4 Grane		chap.13.
Of the lake Asphaltites, or the dead Sea.		-	chap.15.

Of divers other Relations.

-	Of the moman that conceived in a Bath.
-	Of Crassus that never laughed but once.
	That our Saviour never laughed.
1	Of Sergius the second, or Bocca de Porce.
E h	at Tamerlane was a Scythian shepherd.

chap.16.

Of divers others

Of the poverty of Belifarius.
Of fluctus Decumanus, or the tenth wave.
Of Parisatis that poisoned statira by one fide of a knife.
Of the woman fed with poy son that should have poy soned Alexander.
Of the wandering few.
Of Pope Foan.
Of Frier Bacons Brasen head that spoke.
Epicurus.

chap17.

More briefly.

That the Army of Kernes drank whole Ri- with Vinegar. Of Archimedes his burn were all stain. Of the death of Æ schylus	ing the Ship	s of Marcellus. Of the	Fabrishas
in one day. Of the great Ship Syracufia or of Of Come others.	Alexandria.	Of the Spartan boyes.	chap.18.
Of some Relations whose truth we fear.	1		chap, 20



GENERAL PART

of the Caufes of Common Errors.



HE First and Father-cause of common Error, is, The common infirmity of Human Nature; of whose deceptible condition, although perhaps there should not need any other eviction, than the frequent Errors we shall our felves commits even in the express declarement hereof: yet shall we illustrate the same from more infallible constitutions, and persons presumed as far from us in condition,

as time, that is, our first and ingenerated forefathers. From whom as we derive our Being, and the feveral wounds of constitution; fo, may we in fome manner excule our infirmities in the deprayity of those parts, whose Traductions were pure in them, and their Originals but once removed from God. Who not with franding (if posterity may take leave to judg of the fact, as they are affured to suffer in the punishment) were grofly deceived, in their perfection; and fo weakly dehided in the clasgreat diffute, rity of their understanding, that it hath left no small obscurity in ours, parents could How error hot he Fruit; and politish adquaiteg bloch rorrs with

For fielt, They were deceived by Satan; and that not in an invisible infinuation

The Introv

be so deceived

infinuation; but an open and discoverable apparition, that is, in the form of a Serpent; whereby although there were many occasions of suspition, and fuch as could not easily escape a weaker circumspection, yet did the unwary apprehension of Eve take no advantage thereof. It hath therefore feemed strange unto some, the should be deluded by a Serpent, or Subject her reason to a beast, which God had subjected unto hers. It hath empuzzled the enquiries of others to apprehend, and enforced them unto strange conceptions, to make out, how without fear or doubt the could discourse with such a creature, or hear a Serpent speak, without suspition of Imposture. The wits of others have heen so bold, as to accuse her simplicity, in receiving his Temptation so coldly; and when fuch specious effects of the Fruit were Promised, as to make them like God; not to desire, at least not to wonder he pursued not that benefit himself. And had it been their own case, would perhaps have replied. If the tast of this Fruit maketh the caters like Gods, why remainest thou a Beaft? If it maketh us but like Gods, we are so already. If thereby our eyes shall be opened hereafter, they areat present quick enough, to discover thy deceit; and we defire them no opener, to behold our own Thame. If to know good and evil be our advantage, although we have Free-will unto both, we defire to perform but one; We know 'tis good to obey the commandment of God, but evil if we trangress it.

They were deceived by one another, and in the greatest disadvantage of Delusion, that is, the stronger by the weaker: For Eve presented the Fruit, and Adam received it from her. Thus the Serpent was cunning enough, to begin the deceit in the weaker, and the weaker of strength, sufficient to consummate the fraud in the stronger. Art and fallacy was used unto her; a naked offer proved sufficient unto him. So his super-struction was his Ruine, and the sertility of his sleep an issue of Death unto him. And although the condition of Sex, and posteriority of Creation, might somewhat extenuate the Error of the Woman: Yet was it very strange and inexcusable in the Man; especially, if as some affirm, he was the wisest of all men since; or if, as others have conceived, he was not ignorant of the Fall of the Angels, and had thereby Example and

punishment to deterr him.

poled by lome to have been the wifest man that ever was:

Adam and

Eve how they fell,

They were deceived from themselves, and their own apprehensions; for Eve either mistook, or traduced the commandment of God. Of every tree of the Garden thou mayest freely eat, but of the Tree of knowledg of good and evil show shall not eat: for in the day thou eatest thereof, thou shall surely die. Now Eve upon the question of the Serpent, returned the Precept in different terms: You shall not eat of it, neither shall you touch it, less perhaps you die. In which delivery, there were no less than two mistakes, or rather additional mendacities; for the Commandment forbad not the touch of the Fruit; and positively said, Te shall surely die; but the extenuating replied, no forth moriamini, less perhaps ye die. For so in

the yulgar translation it runneth, and so it is expressed in the Theream of Paraphrase of Jonathan. And therefore although it be faid, and that very truely, that the Devil was a lyer from the beginning, yet was the Woman herein the first express beginner: and falsified twice, before the reply of Satan. And therefore allo, to speak strictly, the fin of the Fruit was not the first Offence: They first transgressed the Rule of their own Reason; and after the Commandment of God.

They were deceived through the Conduct of their Senfes, and by Temptations from the Object it felf; whereby although their intellectuals had not failed in the Theory of truth, yet did the infervient and brutal Faculties controll the fuggestion of Reason: Pleasure and Profit already overswaying the instructions of Honesty, and Sensuality perturbing the reasonable commands of Vertue. For so it is delivered in the Text: That when the Woman faw, that the Tree was good for food, and that it was pleasant unto the eye, and a Tree to be desired to make one wife, the took of the fruit thereof and did eat. Now hereby it appeareth, that Eve, before the Fall, was by the fame and beaten away of allurements inveigled, whereby her posterity bath been deluded ever since; that is, those three delivered by St. John, The tust of the steft, the lust of the eye, and the pride of life: Where indeed they seemed as weakly to fail, as their debilitated posterity, ever after. Whereof not withstanding, some in their imperfection, have resisted more powerful temptations; and in many moralities condemned the facility of their feductions.

Again, they might, for ought we know, be still deceived in the unbelief of their Mortality, even after they had eat of the Fruit: For, Eve wheree (proobserving no immediate execution of the Curse, she delivered the Fruit bably) induunto Adam: who, after the tast thereof, perceiving himself still to live, might yet remain in doubt, whether he had incurred Death; which perhaps he did not indubitably believe, until he was after convicted in the vifible example of Abel. For he that would not believe the Menace of God at first, it may be doubted whether, before an ocular example, he believed the Curse at last. And therefore they are not without all reason, who have disputed the Fact of Cain: that is, although he purposed to do mischief, whether he intended to kill his Brother; or designed that, Cain intendwhereof he had not beheld an example in his own kind. There might be ed to kill abel somewhat in it, that he would not have done, or desired undone, when he brake forth as desperately, as before he had done uncivilly, My in-

iquity is greater than can be forgiven me.

Some nicities I confess there are which extenuate, but many more that aggravate this Delusion; which exceeding the bounds of this Discourse, and perhaps our Satisfaction, we shall at present pass over. And therefore whether the Sin of our First Parents were the greatest of any since; whether the transgression of Eve seducing, did not exceed that of Adams seduced; or whether the resistibility of His Reason, did not equivalence

the facility of her Seduction; we shall refer it to the Schoolman; Whether there was not in Eve as great injustice in deceiving her husband, as imprudence in being deceived her felf; especially, if foretalting the Fruit, her exes were opened before his, and the knew the effect of it, before he tafted of it; we leave it unto the Moralift. Whether the whole relation be not Allegorical, that is, whether the temptation of the Man by the Woman, be not the seduction of the rational and higher parts by the inferious and feminine faculties : or whether the Tree in the midft of the Garden. were not that part in the Center of the body, in which was afterward the appointment of Circumcision in Males, we leave it unto the Thalmu-

The Thalmudift's Allegories upon Adam and Eve's Falle

Whether there were any Policy in the Devil to tempt them before the Conjunction, or whether the Islue before tentation, might in justice the History of have fuffered with those after, we leave it unto the Lawrer. Whether Adam foreknew the advent of Christ, or the reparation of his Error by his Saviour; how the execution of the Curse should have been ordered, if, after Eve had caten, Adam had yet refused. Whether if they had tasted the Tree of life, before that of Good and Evil, they had yet suffered the curle of Mortality or whether the efficacy of the one had not over-powred the penalty of the other, we leave it unto GOD. For he alone can truly determine thefe, and all things elfe; Who as he lath proposed the World unto our disputation, so hath he reserved many things unto his own resolution; whose determination we cannot hope from flesh, but must with reverence suspend unto that great Day, whose justice shall either condemn our curiosities, or tesolve our disquisitions.

> Laftly, Man was not only deceivable in his Integrity, but the Angels of light in all their Clarity He that faid, He would be like the highest did Erre, if in some way he conceived himself so already: but in attempting so high an effect from himself, he mis-understood the nature of God. and held a false apprehension of his own; whereby vainly attempting not only insolencies, but impossibilities, he deceived himself as low as Hell. In brief, there is nothing infallible but GOD, who cannot possibly Erre. For things are really true as they correspond unto His conception; and have so much verity as they hold of conformity unto that Intellect, in whose idea they had their first determinations. And therefore being the Rule, he cannot be Irregular; nor, being Truth it felf, conceaveably ad-

mit the impossible society of Error.

CHAP. II.

A further Illustration of the Same.

Being thus deluded before the Fall, it is no wonder if their conceptions were deceitful, and could fearce speak without an Error after. For, what is very remarkable (and no man that I know hath yet observed) in the relations of Scripture before the Flood, there is but one speech delivered by Man, wherein there is not an erroneous conception; and, ftrictly examined, most hainously injurious unto truth. The pen of Moles is brief in the account before the Flood, and the speeches recorded . are but fix. The first is that of Adam, when upon the expostulation of God, he replied; I heard thy voice in the Garden, and because I was naked I bid my felf. In which reply, there was included a very gross Mistake, and, if with pertinacity maintained, a high and capital Error. For thinking by this retirement to obscure himself from God, he infringed the omnisciency and effential Ubiquity of his Maker. Who as he created all things, fo is he beyond and in them all, not only in power, as under his subjection, or in his presence, as being in his cognition; but in his very Essence, as being the foul of their causalities, and the effential cause of their existencies. Certainly, his posterity at this distance and after so perpetuated an impairment, cannot but condemn the poverty of his conception, that thought to obscure himself from his Creator in the shade of the Garden, who had beheld him before in the darkness of his Chaos, and the great obscurity of Nothing; that thought to fly from God, which could not fly himfelf; or imagined that one tree should conceal his nakedness from Gods eye, as another had revealed it unto his own. Those tormented Spirits that with the mountains to cover them, have fallen upon defires of minor absurdity, and chosen ways of less improbable concealment. Though this be also as ridiculous unto reason, as fruitless unto their desires; for he that laid the foundations of the Earth, cannot be excluded the fecreev of the Mountains; nor can there any thing escape the perspicacity of those eves which were before light, and in whose opticks there is no opacity. This is the consolation of all good men, unto whom his Ubiquity affordeth continual comfort and security: And this is the affliction of Hell, unto whom it affordeth despair, and remediless calamity. For those reftless Spirits that fly the face of the Almighty, being deprived the fruition of his eye, would also avoid the extent of his hand; which being impossible, their fufferings are desperate, and their afflictions without evalion; until they can get out of Trismegistus his Circle, that is, to extend their wings above the Universe, and pitch beyond Ubiquity.

The Second is that speech of Adam unto God; The woman whom thou gaveft me to be with me, she gave me of the Tree, and I did eat. This indeed

was an unfatisfactory reply, and therein was involved a very impious Error, as implying God the Author of fin, and accusing his Maker of his transgression. As if he had said, If thou hadst not given mea woman, I had not been deceived: Thou promiseds to make her a help, but she hath proved destruction unto me: Had I remained alone, Ihadnot finned; but thou gavest me a Confort, and so I became seduced. This was a bold and open accusation of God, making the fountain of good, the contriver of evil, and the forbidder of the crime an abettor of the fact prohibited. Surely, his mercy was great that did not revenge the impeachment of his justice; And his goodness to be admired, that it refuted not his argument in the punishment of his excusation, and only pursued the

first transgression without a penalty of this the second.

The third was that of Eve; The Serpent beguiled me, and I did eat. In which reply, there was not only a very feeble excuse, but an erroneous translating her own offence upon another; Extenuating her sin from that which was an aggravation, that is, to excuse the Fact at all, much more upon the fuggestion of a beast, which was before in the strictest terms prohibited by her God. For although we now do hope the mercies of God, will consider our degenerated integrities unto some minoration of our offences; yet had not the fincerity of our first parents so colourable expectations, unto whom the commandment was but fingle, and their integrities best able to resist the motions of its transgression. And therefore so heinous conceptions have risen hereof, that some have seemed more angry there-with, than God himself: Being so exasperated with the offence, as to call in question their falvation, and to dispute the eternal punishment of their Maker. Assuredly with better reason may posterity accuse them than they the Serpent or one another; and the displeasure of the Pelagians must needs be irreconcilable, who peremptorily maintaining they can fulfil the whole Law, will infatisfactorily condemn the nonobservation of one.

The fourth, was that speech of Cain upon the demand of God, Where is thy brother? and he faid, I know not. In which Negation, beside the open impudence, there was implied a notable Error? for returning a lie unto his Maker, and prefuming in this manner to put off the Searcherof hearts, he denied the omnisciency of God, whereunto there is nothing concealable. The answer of Satan in the case of 70b, had more of truth, wildom, and Reverence, this; Whence comest thou Satan? and he faid, From compassing of the Earth. For though an enemy of God, and hater of all Truth, his wisdom will hardly permit him to falsifie with the All-mighty. For well understanding the Omniscience of his nature, he The Devill is not so ready to deceive himself, as to falsifie unto him whose cognition is no way deludable. And therefore when in the tentation of Christ he God when he played upon the fallacy, and thought to deceive the Author of Truth, tempted him, the Method of this proceeding arose from the uncertainty of his Divi-

knew not out Saviour to be nity; whereof had he remained affured, he had continued filent; nor would his diferetion attempt fo unsucceedable a temptation. And so again at the last day, when our offences shall be drawn into accompt, the fubtilty of that Inquisitor shall not present unto God a bundle of calumnies or confutable accusations, but will discreetly offer up unto his Om-

nisciency, a true and undeniable list of our transgressions.

The fifth is another reply of Cain upon the denouncement of his curfe, My iniquity is greater then can be forgiven: For fo it is expressed in some Transfations. The affertion was not only desperate, but the conceit erroneous, overthrowing that glorious Attribute of God, his Mercy, and conceiving the fin of murder unpardonable. Which how great foever; is not above the repentance of man, but far below the mercies of God, and was (as some conceive) expiated in that punishment he suffered temporally for it. There are but two examples of this error in holy Scripture, and they both for Murder, and both as it were of the same person; for Christ was mystically flain in Abel, and therefore Cain had some influence on his death as well as Judas; but the fin had a different effect on Cain, from that it had on Judas; and most that since have fallen into it. For they like Judas defice death, and not unfrequently pursue it: Cain on the contrary grew afraid thereof, and obtained a securement from it. Affuredly, if his dispair continued, there was punishment enough in life, and Justice sufficient in the mercy of his protection. For the life of the desperate equals the anxieties of death; who in uncessant inquietudes but act the life of the damned, and anticipate the desolations of Hell. "Tis indeed a fin in man, but a punishment only in Devils, who offend not God but afflict themselves, in the appointed despair of his mercies. And as to be without hope is the affliction of the damned, so is it the happiness of the bleffed; who having all their expectations prefent, are not distracted with futurities: So is it also their felicity to have no Faith; for enjoying the beatifical vision, there is nothing unto them inevident; and in the fruition of the object of Faith, they have received the full evacuation of it.

The last speech was that of Lamech, I have flain a man to my wound, and a young man to my hurt: If Cain he avenged seven fold, truly Lamech feventy and feven fold. Now herein there feems to be a very erroneous. Illation: from the Indulgence of Godunto Cain, concluding an immunity unto himself; that is, a regular protection from a single example, and an exemption from punishment in a fact that naturally deserved it. The Error of this offender was contrary to that of Cain, whom the Rabbins conceive that Lamec's at this time killed. He despaired in Gods Rabbins think mercy in the same Fact, where this presumed of it ; he by a decollation flain by Laof all hope annihilated his mercy, this by an immoderancy thereof de- meth, Gen. 49 stroyed his Justice. Though the sin were less, the Error was as great; 239 For as it is untrue, that his mercy will not forgive offenders, or his benig-

nity co-operate to their conversions; So is it also of no less fallity to affirm His justice will not exact account of sinners, or punish such as continue in

their transgressions.

Thus may we perceive, how weakly our Fathers did Erre before the Floud, how continually and upon common discourse they sell upon Errors after; it is therefore no wonder we have been erroneous ever since. And being now at greatest distance from the beginning of Error, are almost lost in its dissemination, whose waies are boundless, and confess no circumscription.

CHAP. III.

Of the second cause of Popular Errors; the erroneous disposition of the People.

Aving thus declared the infallible nature of Man even from his first production, we have beheld the general cause of Error. But as for popular Errors, they are more neerly founded upon an erroneous inclination of the people; as being the most deceptable part of Mankind and ready with open armes to receive the eneroachments of Error. Which condition of theirs although deducible from many Grounds, yet shall we evidence it but from a few, and such as most neerly and undeniably declare their natures.

How unequal discerners of truth they are, and openly exposed unto Error, will first appear from their unqualified intellectuals, unable to umpire the difficulty of its diffentions. For Error, to speak largely, is a false judgment of things, or, an effent unto falsity. Now whether the object whereunto they deliver up their assent be true or false, they are incompetent judges.

For the affured truth of things is derived from the principles of knowledg, and causes which determine their verities. Whereof their uncultivated understandings, scarce holding any theory, they are but bad discerners of verity; and in the numerous track of Error, but casually

do hit the point and unity of truth.

Their understanding is so feeble in the discernment of fassicies, and averting the Errors of reason, that it submittethunto the fassicies of sense, and is unable to rectifie the Error of its sensations. Thus the greater part of Mankind having but one eye of Sense and Reason, conceive the Earth far bigger than the Sun, the fixed Stars lesser than the Moon, their sigures plain, and their spaces from Earth equidistant. For thus their Sense informeth them, and herein their reason cannot Rectifie them; and therefore hopelessy continuing sin mistakes, they live and die in their absurdi-

Arguments of fensitive quality most prevailing upon vulgar capacities ties; paffing their days in perverted appehensions, and conceptions of the World, derogatory unto God, and the wisdom of the Creation,

Again, being so illiterate in the point of intellect, and their sense so incorrected, they are farther indisposed everto attain unto truth; as commonly proceeding in those wayes, which have most reference unto sense,

and wherein their lyeth most notable and popular delusion.

For being unable to wield the intellectuall arms of reason, they are fain to betake themselves unto wasters, and the blunter weapons of truth: affecting the gross and sensible ways of Doctrin, and such as will not confilt with Arict and Subtile Reason. Thus unto them a piece of Rhetorick is a sufficient argument of Logick; an Apologue of Efop, beyond a Syllogy in in Barbara; parables than propositions, and proverbs more powerful than demonstrations. And therefore are they led rather by Example, than Precept; receiving perswasions from visible inducements, before electual instructions. And therefore also they judg of human actions by the event; for being uncapable of operable circumstances, or rightly to judg the prudentiality of affairs, they only gaze upon the visible success, and therefore condemn or cry up the whole progression. And so from this ground in the Lecture of holy Scripture, their apprehensions are commonly confined unto the literal sense of the Text; from whence have enfued the gross and duller fort of Herefies. For not attaining the deuteroscopy; and second intention of the words, they are fain to omit the Superconsequencies, Coherencies, Figures, or Tropologies; and are not sometime persuaded by fire beyond their literalities. And therefore also things invisible, but into intellectual discernments, to humour the grofnels of their comprehensions, have been degraded from their proper forms, and God himself dish noured into manual expreffions. And so likewise being unprovided, or unsufficient for higher speculitions, they will alwayes betake themselves unto sensible representations, and can hardly be restrained the dulness of Idolatry. A sin or folly not only derogatory unto God but men; overthrowing their Reason, as well as his Divinite. In brief, a reciprocation, or rather, an invertion of the Creation, making God one way, as he made us another; that is, after our Image, as he made us after His own.

Moreover, their understanding thus weak in it self, and perverted by sensible delutions, is yet farther impaired by the dominion of their appetite; that is, the irrational and brutal part of the soul, which lording it over the soveraign faculty, interrupts the actions of that noble part, and chooks those tender sparks, which Adam hath left them of reason. And therefore they do not only swarm with Errors, but vices depending thereon. Thus they commonly affect no man any surther than he deserts his reason, or complies with their aberrancies. Hence they imbrace not vertue for it self, but its reward; and the argument from pleasure or Utility is far more powerful, than that from vertuous Honesty: which

Fable:

Mahomes

M Iulian.

Mahomet and his contrivers well understood, when he set out the felicity of his Heaven, by the contentments of flesh, and the delights of sense, flightly passing over the accomplishment of the Soul, and the beatitude of that part which Earth and visibilities too weakly affect. But the wisdom of our Saviour, and the simplicity of his truth proceeded another way; defying the popular provisions of happiness from sensible expectations: placing his felicity in things removed from fense, and the intellectual enjoyment of God. And therefore the doctrine of the one was never affraid of Universities, or endeavoured the banishment of learning, And though Galen doth sometimes nibble at Moses, and, beside the * Apostate Christian, some Heathens have questioned his Philo-Sophical part, or treaty of the Creation: Yet is there surely no reasonable Pagan, that will not admire the rational and well grounded precepts of Christ; whose life, as it was conformable unto his Doctrine. fo was that unto the highest rules of Reason; and must therefore flourish in the advancement of learning, and the perfection of parts best able

to comprehend it.

mus juret Ort-

fish,

Again, Their individual imperfections being great, they are moreover enlarged by their aggregation; and being erroneous in their fingle numbers, once hudled together, they will be Error it felf. For being a confusion of knaves and fools, and a farraginous concurrence of all conditions, tempers, fexes, and ages; it is but natural if their determinations be monstrous, and many waies inconsistent with Truth. And therefore wife men have alwaies applauded their own judgment, in the contradiction of that of the People; and their soberest adversaries, have ever afforded them the stile of foolsand mad men; and, to speak impartially, their Wen fani effe actions have made good these Epithers. Had Orestes been Judg, he would Bominia non la- not have acquitted that Lyftrian rabble of madness, who, upon a visible miracle, falling into so nigh a conceit of Paul and Barnabas, that they termed the one Jupiter, the other Mercurius; that they brought Oxen and Garlands, and were hardly restrained from facrificing unto them; did notwithstanding suddenly after fall upon Paul, and having stoned him drew him for dead out of the City. It might have hazzarded the fides of Democritus, had he been present at that tumult of Demetrius ; when the people flocking together in great numbers, some crying one thing, and some another, and the assembly was confused, and the most part knew not wherefore they were come together; notwithstanding, all with one voice for the space of two hours cried out, Great is Diana of the Ephesians. It had overcome the patience of Job; as it did the meekness of Moses, and would furely have mastered any, butthelonganimity, and lasting sufferance of God; had they beheld the Mutiny in the wilderness, when, after ten great Miracles in Egypt, and some in the fame place, they melted down their stoln ear-rings into a Calf, and mon-Aroully cryed out; These are thy Gods, O Israel, that brought thee one of

the land of Egypt. It much accuseth the impatience of Peter, who could not endure the staves of the multitude, and is the greatest example of lenity in our Saviour, when he defired of God forgiveness unto those, who having one day brought him into the City in triumph, did prefently after, act all dishonour upon him, and nothing could be heard but, Crucifige, in their Courts. Certainly he that confidereth these things in Gods peculiar people, will eafely discern how little of truth there is in the waies of the Multitude; and though sometimes they are flattered with that Aphorism, will hardly believe, The voice of the people to be the voice of God.

Laftly, being thus divided from truth in themselves, they are yet farther removed by advenient deception. For true it is and I hope I shall not offend their vulgarities,) if I fay, they are daily mocked into Error by fubiler devisors, and have been expresly deluded by all professions and ages. Thus the Priests of Elder time, have put upon them many incredible conceits, not only deluding their apprehensions with Ariolation, South faying, and fuch oblick Idolatries, but winning their credulities unto theliteral and down-right adorement of Cats, Lizzards, and Beetles. And thus also in some Christian Churches, wherein is presumed an irreprovable truth, if all be true that is suspected, or half what is related; there have not wanted many strange deceptions, and some thereof are still confessed by the name of Pious Frauds. Thus Thendas an Impostor was able to lead away Four thousand into the Wilderness, and the delusions of Mahomet almost the fourth part of Mankind. Thus all Herefies, how groß foever, have found a welcome with the people. For thus, many of the Jews were wrought into belief that Herod was the Meffias; and David George of Leyden and Arden, were not without a party amongst the people, who maintained the same opinion of themselves almost in our

Ph, sicians (many at least that make profession thereof) beside divers less discoverable wayes of fraud, have made them believe, there is the book of fate, or the power of Aarons breft-plate, in Urins. And therefore hereunto they have recourse, as unto the Oracle of life, the great thor's Centure determinator of Virginity, Conception, Fertility, and the Inscrutable in- upon Judgfirmities of the whole Body. For as though there were a femnnality in ment by Utine. Utine, or that, like the Seed, it carried with it the Idea of every part, they foolifuly conceive, we visibly behold therein the Anatomy of every particle, and can thereby indigitate their Diseases: And running into any demands, expect from us a sudden resolution in things, whereon the Devil of Delphos would demure; and we know hath taken respite of some

dayes to answer easier questions. Saltimbalcoes, Quack salvers, and Charlatans, deceive them in lower de- ris, where grees. Were Ejopalive, the Piazza and Pont-Neuf could not but speak play their their fallacies; mean while there are too many, whose cries cannot con-pranks,

Places in Venice and Pa-

ceal their mischief. For their Impoltures are full of cruelty, and worse than any other; deluding not only unto pecuniary defraudations, but the

irrepar ble deceit of death.

Astrologers, which pretend to be of Cabala with the Starrs (such I mean. as abuse that worthy Enquiry) have not been wanting in their deceptions; who having won their belief unto principles whereof they make great doubt themselves, have made them believe that arbitrary events below, have necessary causes, above; whereupon their credulities assent unto any Prognosticks; and daily swallow the Predictions of men, which, confidering the independency of their causes, and contigency in their Events, are only in the prescience of God.

Fortune-tellers, Juglers, Geomancers, and the like incantory Impostors, though commonly men of Interiour rank, and from whom withour Illumination they can expect no more than from themselves, do daily and professedly delude them. Unto whom (what is deplorable in Men and Christians) too many applying themselves; betwixt jest and earnest, betray the cause of Truth, and sensibly make up the legionary body

Statists and Politicians, unto whom Ragione di Stato, is the first Conside-

of Etror.

rable, as though it were their business to deceive the people, as a Maxim, do hold, that truth is to be concealed from them; unto whom although they reveal the visible design, yet do they commonly conceal the capital. And therefore have they ever been the instruments of great designes, yet seldom understood the true intention of any, accomplishing the drifts of wifer heads, as inanimate and ignorant Agents, the general design of the World; who though in some Latitude of lense, and in a natural cognition perform their proper actions, yet do they unknowingly concurr unto higher ends, and blindly advance the great intention of Nature. Now how far they may be kept in ignorance a greater example The people there is in the people of Rome; who never knew the true and proper name of their own City. For, beside that common appellation received. by the Citizens, it had a proper and fecret name concealed from them: Cujus alterum nomen discere secretis (eremoniarum nefas babetur, faith Plinie; lest the name thereof being discovered unto their enemies, their Penates and Patronal God might be called forth by charms and incantations. For according unto the tradition of Magittains, the tutelary Spirits will not remove at common appellations, but at the proper names of things whereunto they are Protectors.

Thus having been deceived by themselves, and continually deluded by others, they must needs be stuffed with Errors, and even over-run with these inferiour falsities; whereunto whosoever shall resign their reasons, either from the Root of deccit in themselves, or inability to result such trivial deceptions from others, although their condition and fortunes may place them many Spheres above the multitude; yet are they still within the line of Vulgarity, and Democratical enemies of truth. CHAP.

to know the sightnameof their City.

CHAP. IV.

Of the nearer and more Immediate Causes of popular Errors, both in the wifer and common fort, Misapprehension, Fallacy, or false deduction, Credulity, Supinity, adherente unto Antiquity, Tradition and Authority.

He first is a mistake, or a misconception of things, either in their first apprehensions, or secondary relations. So Eve mistook the Commandment, either from the immediate injunction of God, or fromthe secondary narration of her Husband. So might the Disciples mistake our Saviour, in his answer unto Peter concerning the death of John, as is delivered, John 21. Peter seeing John, said unto Jesus, Lord, and what shall this man do? Jesus saith, If I will, that he tarry till I come, what is that unto thee? Then went this faying abroad among the bretbren, that that Disciple should not die. Thus began the conceit and opinion of the Cenranres : that is, in the miltake of the first beholders, as is declared by Ser- of Cemaures vius ; whhn some young Thessalians on horseback were beheld afar off, fioned, while their horses watered, that is, while their heads, were depressed, they were conceived by the first Spectators, to be but one animal; and answe-

rable hereunto have their pictures been drawn ever fince.

And, as simple mistakes commonly beget fallacies, so men rest not in false apprehensions, without absurd and incensequent deductions; from fallacious foundations, and misapprehended mediums, erecting conclusions no way inferrible from their premises. Now the fallacys whereby men deceive others, and are deceived themselves, the Ancients have divided into Verbal and Real. Of the Verbal, and such as conclude from mistakes of the Word, although there be no less than fix, yet are there buttwothereof worthy our notation, and unto which the rest may be referred; that is the fallacy of Equivocation and Amphibology which conclude from Equivoca. the ambiguity of some one word, or the ambiguous Syntaxis of many put tion and Amtogether. From this fallacy arose that calamitous Error of the Jews, how they dismilapprehending the Prophefies of their Meffin, and expounding them fer. a wayes unto literal and temporal expectations. By this way many Errors crept irrand perverted the Doctrin of Pythagoras, whilft men recei- Pythagoras his ed his Precepts in a different sense from his intention; converting Meta- Allegorical phors into proprieties, and receiving as literal expressions, obscure and lized. involved rruths. Thus when he enjoyned his Disciples, an abstinence from Beans, many conceived they were with severity debarred the use of that pulse; which notwithstanding could not be his meaning; for as Aristonemus, who wrote his life averreth, he delighted much in that kind of food himself. Butherein, as Plutarch observeth, he had no other intention

The belief

สลิง อีลีภา พ. ลนดัง อัสจิวูลิ-อูรู อิวูลิธ

than to ciffuade men from Magiffracy, or undertaking the publick offices of state; for by beans was the Magistrate elected in some parts of Greece; and, after his daies, we read in Thucydides, of the Councel of the bean in Athens. The same word also in Greek doth signific a Testicle, and hath been thought by some an injunction only of Continency, as Aul. Gellius hath expounded, and as Empedocles may also be interpreted: that is, Tefticulis miseri dexiras subducite; and might be the original intention of Pythagoras; as having a notable hint hereof in Beans, from the natural fignature of the venereal organs of both Sexes. Again, his injunction is, not to harbour Swallows in our Houses: Whose advice notwithstanding we do not contemn, who daily admit and cherish them: For herein a caution is only implied, not to entertain ungrateful and thankless persons, which like the Swallow are no way commodious unto us; but having made use of our habitations, and served their own turns, forfake us. So he commands to deface the Print of a Cauldron in the afhes. after it hath boiled. Which strictly to observe were condemnable superstition: But hereby he covertly adviseth us not to persevere in anger; but after our choler hath boiled, to retain no impression thereof. In the like fense are to be received, when he adviseth his Disciples to give the right hand but to few, to put no viands in a Chamber-pot, not to pass over a Balance, not to rake up fire with a Sword, or pils against the Sun. Which anigmatical deliveries comprehend useful verities, but being mistaken by literal Expositors at the first, they have been mis-understood by most fince, and may be occasion of Error to Verbal capacities for ever.

This fallacy in the first delusion Satan put upon Eve, and his whole tentation might be the same continued; so when he said, Ye shall not die, that was, in his equivocation, ye shall not incurr a present death, or a destruction immediately ensuing your transgression. Your eyes shall be opened; that is, not to the enlargemement of your knowledg, but discovery of your shall have knowledge of good by its privation, but cognisance of evil by sense and visible experience. And the same fallacy or way of deceit, so well succeeding in Paradise, he continued in his Oracles through all the World. Which had not men more warily understood, they might have performed many acts inconsistent with his intention. Brutus might have made haste with Tarquine to have kissed his own Mother. The Athenians might have built them woodden Walls, or doubled the Altar at Delphos.

The circle of this fallacy is very large; and herein may be comprised all Ironical mistakes, for intended expressions receiving inverted significations; all deductions from Metaphors, Parables, Allegories, unto real and rigid interpretations. Whereby have risen not only popular Errors in Philosophy, but vulgar and senses their foundations, as they stand relative to the content of the senses of the senses

ted by Epiphanius, Austin, or Prateolus.

Cther waies there are of deceit; which confilt not in falle apprehenfion of Words, that is, Verbal expressions or sentential significations, but fraudulent deductions, or inconfequent illations, from a falle conception of things. Of these extradictionary and real fallacies, fristotle and Logicians make in number fix, but we observe that men are most commonly deceived by four thereof: those are, Petitio principii, A dillo secundum quid ad dictum simpliciter, A non causa pro causa; And, fallacia conse-

quentis.

The first is, Petitio principii. Which fallacy is committed, when a question is made a medium, or we assume a medium as granted, whereof we remain as unfatisfied as of the question. Briefly, where that is affumed as a Principle to prove another thing, which is not conceded as true it felf. By this fallacy was Eve deceived, when the took for granted, a falle affertion of the Devil; Te Shall not furely die; for God doth know that in the day ye shall eat thereof, your eyes shall be opened, and you shall be as Gods. Which was but a bare affirmation of Satan, without proof or probable inducement, contrary unto the command of God, and former belief of her felf. And this was the Logick of the Jews when they accused our Saviour unto Pilate; who demanding a reasonable impreachment, or the allegation of some crime worthy of Condemnation; they only replied, If he had not been worthy of Death, we would not have brought Him before thee. Wherein there was neither accusation of the person, nor satisfactive on of the Judg; who well understood, a bare accufation was not prefumption of guilt, and the clamours of the people no accusation at all. The fame Fallacy is sometime used in the dispute, between Job and his friends; they often taking that for granted which afterward he disproveth.

The second is, A dicto secundum quid ad dictum simpliciter, when from that which is but true in a qualified fense, an inconditional and absolute verity is inferred; transferring the special consideration of things unto their general acceptions, or concluding from their strict acception, unto that without all limitation. This fallacy men commit when they argue from a particular to a general; as when we conclude the vices or qualities of a few, upon a whole Nation. Or from a part unto the whole. Thus the Devil argues withour Saviour: and by this, he would perfivede Him he might be secure, if he cast himself from the Pinnacle: For, said he, it is written, He shall give his Angels charge concerning thee, and in their Pfal. 91. hands they shall bear thee up, lest at any time thou dash thy foot against a stone. But this illation was fallacious, leaving one part of the Text, He shall keep thee in all thy wayes; that is, in the wayes of rightcousness, and not of rash attempts: so he urged a part for the whole, and inferred more in the conclusion, than was contained in the premises. By the same fallacy we proceed, when we conclude from the fign unto the thing fignified. By this incroachment, Idolatry first crept in, men converting the symbolical use of Idols into their proper Worship, and receiving the

The Original of Idolatry.

representation of things as the substance and thing it self. So the Statue of Belus at first erected in his memory, was in after-times adored as a Divinity. And so also in the Sacrament of the Eucharist, the Bread and Wine which were but the signals or visible signs, were made the things signified, and worshipped as the Body of Christ. And hereby generally men are deceived that take things spoken in some Latitude without any at all. Hereby the Jews were deceived concerning the commandment of the Sabbath, accusing our Saviour for healing the sick, and his Disciples for plucking the ears of Gorn upon that day. And by this deplorable mistake they were deceived unto destruction, upon the assault of Pompey the great, made upon that day; by whose superstitious observation they could not desend themselves, or perform any labour whatever.

The Alcoran endures neither Wine nor Universities

The third is, Anon causa pro causa, when that is pretended for a cause which is not, or not in that sense which is inferred. Upon this consequence the law of Mahomet forbids the use of Wine; and his Successors abolished Universities. By this also manny Christians have condemned literature, misunderstanding the counces of Saint Paul, who adviset no further than to beware of Philosophy. On this Foundation were built the conclusions of Southsayers in their Augurial, and Tripudiary divinations; collecting presages from voice or food of Birds, and conjoyning Events unto causes of no connection. Hereupon also are grounded the gross mistakes, in the cure of many diseases; not only from the last medicine, and sympathetical Receipts, but Amulets, Charms, and all incantatory applications; deriving effects not only from inconcurring causes, but things devoid of all efficiency whatever.

The fourth is, the Fallacy of the Consequent; which if strictly taken, may be a sallacious illation in reference unto antecedency, or consequency; as to conclude from the position of the antecedent to the position of the consequent, or from the remotion of the consequent to the remotion of the antecedent. This is usually committed, when in connexed Propositions the Terms adhere contingently. This is frequent in Oratory illations; and thus the *Pharises*, because He conversed with Publicans and Sinners, accused the holiness of Christ. But if this Fallacy be largely taken, it is committed in any vicious illation, offending the rules of good consequence; and so it may be very large, and comprehend all salle illations against the settled Laws of Logick: But the most usual inconsequencies are from particulars, from negatives, and from affirmative conclusions in the second figure, wherein indeed offences

are most frequent, and their discoveries not difficult. .

CHAP. V.

Of Credulity and Supinity.

Third cause of common Errors is the Credulity of men, that is, an casse assent to what is obtruded, or a believing at first ear, what is delivered by others. This is a weakness in the understanding, without examination affenting unto things, which from their Natures and Caufes do carry no perswasion; whereby men often swallow falsities for truths, dubiofities for certainties, feasibilities for possibilities, and things impossible as possibilities themselves. Which, though the weakness of the Intellect, and most discoverable in vulgar heads; yet bath it sometime fallen upon wifer brains, and great advancers of Truth. Thus many wife Athenians fo far forgot their Philosophy, and the nature of humane production, that they descended unto belief, that the original of their Nation was from the Earth, and had no other beginning then the feminality and womb of their great Mother. Thus is it not without wonder, how those learned Arabicks to tamely delivered up their belief unto the abfurdities of the Alcoran. How the noble Geber, Avicenna, and Almanzor, should rest satisfied in the nature and causes of Earthquakes, delivered from the doctrine of their Prophet; that is, from the motion of a great Bull, upon whose horns all the earth is poised. How their faiths could decline fo low, as to concede their generations in Heaven, to be made by the smell of a Citron, or that the telicity of their Paradile should confilt in a Jubile of copulation, that is, a coition of one act prolonged unto fifty years. Thus is it almost beyond wonder, how the belief of reasonable creatures, should ever submit unto Idolatry: and the credulity of those men scarce credible (without presumption of a second Fall) who could believe a Deity in the work of their own hands. For although in that ancient and diffused adorations of Idols, unto the Priests and Subtiler heads, the worship perhaps might be symbolical, and as those Images some way related unto their Deities; yet was the Idolatry direct and down-right in the people; whose credulity is illimitable, who may be made believe that any thing is God; and may be made believe there is no God at all.

And as credulity is the cause of Error, so Incredulity oftentimes of Obflinate and not enjoying truth; and that not only an obstinate incredulity, where- irrational Sceby we will not acknowledge affent unto what is reasonably inferred, but pticism, justly any Academical refervation in matters of easie truth, or rather sceptical censured. infidelity against the evidence of reason and sense. For these are conceptions befalling wife men, as abfurd as the apprehensions of fools, and the credulity of the people which promiscuously swallow any thing. For this is not only derogatory unto the wildom of God, who hath pro-

poled

posed the World unto our knowledge, and thereby the notion of Himself; but also detractory unto the intellect, and sense of man expressedly disposed for that inquisition. And therefore, hoc tantum seio, quod nibil seio, is not to be received in an absolute sense, but is comparatively expressed unto the number of things whereof our knowledg is ignorant. Nor will it acquit the insatisfaction of those which quarrel with all things, or dispute of matters, concerning whose verities we have conviction from reason, or decision from the inerrable and requisite conditions of sense. And therefore if any affirm, the earth doth move, and will not believe with us, it standeth still; because he hath probable reasons for it, and I no infallible sense, nor reason against it, I will not quarrel with his affertion. But is slike Zeno, he shall walk about, and yet deny there is any motion in Nature, surely that man was constituted for Anticera, and were a fit companion for those, who having a conceit they are dead, cannot be convicted into the society of the living.

The fourth is a Supinity, or neglect of Enquiry, even of matters whereof we doubt; rather believing, than going to fee; or doubting with ease
and grais, than believing with difficulty or purchase. Whereby, either
from a temperamental inactivity, we are unready to put in execution the
suggestions or dictates of reason; or by a content and acquiescence in
every species of truth, we embrace the shadow thereof, or so much as
may palliate its just and substantial acquirements. Had our fore-Fathers
stat down in these resolutions, or had their curiosities been sedentary,
who pursued the knowledge of things through all the corners of nature,
the face of truth had been obscure unto us, whose lustre in some part

their industries have revealed.

Certainly the sweat of their labours was not salt unto them, and they took delight in the dust of their endeavours. For questionless, in Knowledg there is no stender difficulty; and Truth, which wise men say doth lye in a Well, is not recoverable by exantiation. It were some extenuation of the Curse, if in sudore unitus tui were confinable unto corporal exercitations, and there still remained a Paradise, or unthorny place of knowledg. But now our understandings being eclipsed, as well as our tempers infirmed, we must betake our selves to wayes of reparation, and depend upon the illumination of our endeavours. For, thus we may in some measure repair our primary ruines, and build our selves Men again. And though the attempts of some have been precipitous, and their Enquiries so audacions, as to come within command of the staming swords, and lost themselves in attempts above humanity; yet have the Enquiries of most desected by the way, and tired within the sober circumference of Knowledg.

And this is the reason, why some have transcribed any thing; and although they cannot but doubt thereof, yet neither make Experiment by sense, or Enquiry by reason; but live in doubts of things, whose satisfies

faction

faction is in their own power; which is indeed the inexcusable part of our ignorance, and may perhaps fill up the charge of the last day. For, not obeying the dictates of Reason, and neglecting the cries of Truth, we fail not only in the trust of our undertakings, but in the intention of man it felf. Which although more venial in ordinary constitutions, and such as are not framed beyond the capacity of beaten notions, yet will it in. excufably condemn fome men, who having received excellent endowments, have yet fate down by the way, and frustrated the intention of their habilities. For certainly, as some men have sinned in the principles of humanity, and must answer, for not being men, so others offend, if they be not more. Magis extra vitia, quam cum virtutibus, would commend those: These are not excusable without an Excellency. For, great conflitutions, and fuch as are constellated unto knowledge, do nothing till they out do all; they come thort of themselves, if they go not beyond others; and must not sit down under the degree of Worthies. God expects no luftre from the minor Stars; but if the Sun should not illuminate all, it were a fin in Nature. Ultimus bonorum, will not excuse every man, nor is it sufficient for all to hold the common level: Mens names thould not only diffinguish them: A man should be something, that men are not, and individual in somewhat beside his proper Name. Thus while it exceeds not the bounds of reason and modesty, we cannot condemn singularity. Nos numerus sumus, is the Motto of the multitude, and for that reason are they Fools. For things as they recede from unity, the more they approach to imperfection, and Deformity; for they hold their perfection in their Simplicities, and as they nearest approach unto God.

Now as there are many great Wits to be condemned, who have neglected the increment of Arts, and the fedulous pursuit of knowledge; lo are there not a few very much to be pitied, whose industry being not attended with natural parts, they have sweat to little purpose, and rolled the stone in vain. Which chiefly proceedeth from natural incapacity, and genial indisposition, at least, to those particulars whereunto they apply their endeavours. And this is one reason why, though Universities be full of Universities men, they are oftentimes empty of learning: Why, as there are some why many men do much without learning, so others but little with it, and few that Scholars, and attain to any measure of it. For many heads that undertake it, were ne- empty of Leatver squared, nor timber'd for it. There are not only particular men, but ning. whole Nations indisposed for learning; whereunto is required, not only education, but a pregnant Minerva, and teeming Constitution. For the Thenatural Wisdom of God hath divided the Genius of men according to the diffe- genius or inrent affairs of the World: and varied their inclination according to much to be rethe variety of Actions to be performed therein. Which they who con- garded in the fider not, rudely rushing upon professions and ways of life, unequal to choice of a their natures; dishonour, not only themselves and their Functions, but Profession.

pervert the harmony of the whole World. For, if the World went on as God hath ordained it, and were every one imployed in points concordant to their Natures, Professions: Arts and Commonwealths would rise up of themselves; nor needed we a Lanthorn to find a man in Athens.

CHAP. VI.

Of adherence unto Antiquity.

Immoderate respect unto Antiquity, a general cause of Error. Dut the mortallest enemy unto Knowledge, and that which hath done the greatest execution upon truth, hath been a peremptory adhesion unto Authority, and more especially, the establishing of our belief upon the dictates of Antiquity. For (as every capacity may observe) most men of Ages present, so superstitionsly do look on Ages past, that the Authorities of the one, exceed the reasons of the other: Whose perfons indeed being far removed from our times, their works, which seldom withus pass uncontroused, either by contemporaries, or immediate successors, are now become out of the distance of Envies: and the farther removed from present times, are conceived to approach the nearer unto truth it self. Now hereby methinks we manifestly delude our selves, and widely walk out of the track of Truth.

For first, Men hereby impose a Thraldom on their Times, which the ingenuity of no Age should endure, or indeed, the presumption of any did ever yet enjoyn. Thus Hippocrates about 2000 years ago, conceived it no injustice, either to examine or resute the Doctrines of his Predecessors: Galen the like, and Aristotle the most of any. Yet did not any of these conceive themselves infallible, or set down their dictates as verities irrefragable, but when they deliver their own Inventions, or reject other mens Opinions, they proceed with Judgment and Ingenuity; establishing their assertion, not only with great solidity, but submitting

them also unto the correction of future discovery.

Secondly, Men that adore times past, consider not that those times were once present; that is, as our own are at this instant, and we our selves unto those to come, as they unto us at present, as we relye on them, even so will those on us, and magnisse us hereafter, who at present condemn our selves. Which very absurdity is daily committed amongst us, even in the esteem and censure of our own times. And to speak impartially, old Men, from whom we should expect the greatest example of Wisdom, do most exceed in this point of folly; commending the days of their youth, which they scarce remember, at least well understood not; extolling those times their younger years have heard

their Fathers condemn, and condemning those times the gray heads of their posterity shall commend. And thus is it the humour of many heads, to extol the days of their Fore-sathers, and declaim against the wickedness of times present. Which notwithstanding they cannot hand-somly do, without the borrowed help and Satyrs of times past; condemning the vices of their own times, by the expressions of vices in times which they commend; which cannot but argue the community of vice in both. Horace therefore, Juvenal, and Persus were no Prophets, although their lines did seem to indigitate and point at our times. There is a certain list of vices committed in all Ages, and declaimed against by all Authors, which will last as long as human enature; which digested into common places, may serve for any Theme, and never be out of date until Dooms-day.

Thirdly, The Testimonies of Antiquity and such as pass or aculously amongst us, were not, if we consider them, always so exact, as to examine the doctrine they delivered. For some, and those the acutest of them, have left unto us many things of falsity; controlable, not only by critical

and collective reason, but common and Country observation.

Hereof there want not many examples in Aristotle, through all his Book of Animals; we shall instance onely in three of his Problems, and all contained under one Section. The first enquireth, why a Man doth cough, but not an Oxe or Cow; whereas, notwithstanding the contrary is often observed by Husbandmen, and stands confirmed by those who have expresly treated De Re Rustica, and have also delivered divers remedies for it. Why Juments, as Horses, Oxen, and Asses, have no eructation or belching, whereas indeed the contrary is often observed, and also delivered by Columella. And thirdly, Why Man alone hath gray hairs? whereas it cannot escape the eyes, and ordinary observation of all men, as Horses, Dogs, and Foxes, wax gray with age in our Countries; and in the colder Regions, many other Animals without it. And though favourable constructions may somewhat extenuate the rigour of these conceffions, yet will scarce any palliate that in the fourth of his Meteors, that Salt is easiest dissolvable in cold water: Nor that of Diascorides, that Quickfilver is best preserved in Vessels of Tin and Lead.

Other Authors write often dubiously, even in matters wherein is expected a strict and definitive truth; extenuating their assimptions, with aiunt, ferunt, fortasse: as Diascorides, Galen, Aristotle, and many more. Others by hear-say; taking upon trust most they have delivered, whose Volumes are meer Collections, drawn from the mouths or leaves of other Authors; as may be observed in Plinie, Elian, Atheneus, and many more. Nota few transcriptively, subscribing their Names unto other mens endeavours, and meerly transcribing almost all they have written. The Latines transcribing the Greeks, the Greeks and Latines, each other.

Thus hath Justine borrowed all from Trogus Po no it's, and Julius So-

ty, and fome notable instances of Plagianifm. that is, or filching Authors.

pholis.

The Antiqui-lines, in a manner transcribed Plinie, Thus have Lucian and Apalies ferved Lucius Pratenfis; men both living in the same time, and both transcribing the same Author, in those famous Books, Entituled Lucius by the one, and Aurens Afinus by the other. In the same measure hath of transcribing Simocrates in his Tract. De Nito, deale with Diodorus Siculus, as may be observed in that work annexed unto Herodotus, and translated by Jungermannus. Thus Eratofttenes wholly translated Timotheus de Insulis, not referving the very Preface. The same doth Strabo report of Endorms. and Ariston, in a Treatise entituled De Nilo. Clemens Alexandrinus hath observed many examples hereof among the Greeks; and Pliny speaketh very plainly in his Preface, that conferring his Authors, and comparing their works together, he generally found those that went before verbatim transcribed, by those that followed after, and their Originals never so His Metamormuch as mentioned. To omit how much the wittiest piece of Ovid is beholden unto Parthenius Chius; even the magnified Virgil hath borrowed, almost in all his Works; his Ecloques from Theocratus, his Georgicks from Hefod and Aratus, his Aneads from Homer, the second Book whereof containing the exploit of Sinon and the Trojan Horse (as Macrobins observeth) he hath verbatim derived from Pifander. Our own Profession is not excusable herein. Thus Oribasius, Lins, and Loineta, have in a manner transcribed Galen. But Marcellus Empericus, who hath left a famous Work De Medicamentis, hath word for word transcribed all Scribanius Largus, De Compositione Medicamentorum, and not left out his very Peroration. Thus may we perceive the Ancients were but men, even like our felves. The practice of transcription in our days, was no Monster in theirs: Plagiarie had not its Nativity with Printing, but began in times when thefts were difficult, and the paucity of Books scarce wanted that Invention.

In his Politicks.

Nor did they only make large use of other Authors, but often without mention of their names. Aristotle, who seems to have borrowed many things from Hippocrates, in the most favourable construction, makes mention but once of him, and that by the by, and without reference unto his present Doctrine. Virgil, so much beholding unto Homer, hath not his name in all his Works: and Plinie, who feems to borrow many Authors out of Dioscorides, bath taken no notice of him. I wish men were not still content to plume themselves with others Feathers. Fear of discovery, not single ingenuity affords Quotations rather then Transcriptions; wherein notwithstanding the Plagiarisme of many makes little confideration, whereof though great Authors may complain, small ones cannot but take notice.

Fourthly, While we fo eagerly adhere unto Antiquity, and the accounts of elder times, we are to confider the fabulous condition thereof. And that we shall not deny, if we call to mind the Mendacity of Greece, from whom we have received most relations, and that a confiderable part

An ancient Author who writ Hegi am

of ancient Times, was by the Greeks themselves termed wu har, that is, sw, five de inmade up or stuffed out with Fables. And turely the fabulous inclination credibilibus, of those days, was greater then any fince ; which swarmed so with Fa- part is yet exbles, and from such slender grounds, took hints for fictions, poyloning tant. the World ever after; wherein how far they exceeded, may be exemplified from Palephatus, in his Book of Fabulous Narrations. That Fa- The Fable of Orphens his ble of Orphens who by the melody of his Musick, made Woods and Trees Haro, etc. to follow him, was raifed upon a flender foundation; for there were a whence occacrew of mad women, retired unto a Mountain from whence being paci- fioned. fied by his Musick, they descended with boughs in their hands, which unto the fabulofity of those times proved a sufficient ground to celebrate unto all posterity the Magick of Orpheus Harp, and its power to attract the sensless Trees about it. That Medea the famous Sorceress could renew youth, and make old men young again, was nothing elfe, but that from the knowledge of Simples the had a Receit to make white hair black, and reduce old heads, into the tincture of youth again. The Fable of Gerion and Cerberus with three heads, was this: Gerson was of the City Tricarinia, that is, of three heads, and Cerberns of the same place was one of his Dogs, which running into a Cave upon pursuit of his Masters Oxen, Hercules perforce drew him out of that place, from whence the conceits of those days affirmed no less, then that Hercules descended into Hell, and brought up Cerberus into the habitation of the living. Upon the like grounds was raised the figment of Briareus, who dwelling in a City called Hecatonchiria, the fansies of those times assigned him an hundred hands. 'Twas ground enough to fansie wings unto Dedalus, in that he stole out of a Window from Minos, and failed away with his fon Icarus: who steering his course wifely, escaped; but his son carrying too high a fail was drowned. That Wiobe weeping over her children, was turned into a Stone, was nothing elfe, but that during her life the erected over their Sepultures a Marble Tomb of her own. When Acteon had undone himself with Dogs, and the prodigal attendants of hunting, they made a folemn ftory how he was devoured by his Hounds. And upon the like Eating of grounds was raised the Anthrop phagie of Diomedes his horses. Upon Mans flesh. as flender foundation was built the fable of the Minotaure; for one Taurus a servant of Minos gat his Mistris Pasiphae with child, from whence the Infant was named Minotaurus. Now this unto the fabulosity of those times was thought sufficient to accuse Pasiphae of Beastiality, or admitting conjunction with a Bull; and in succeeding ages gave a hint of depravity unto Domitian to act the Fable into reality. In like manner, as Diodorsu plainly delivereth, the famous Fable of Charon had its Nativity; who being no other but the common Ferry-man of Egype, that wafted over the dead bodies from Memphis, was made by the Greeks to be the Ferry-man of Hell, and solemn stories raised after of him. Lastly, we shall not need to enlarge, if that be true which grounded the generation :

neration of Castor and Helen out of an Egg, because they were born and brought up in an upper room, according unto the Word an, which

with the Lacademonians had also that signification.

Fifthly, We applaud many things delivered by the Ancients, which are in themselves but ordinary, and come thort of our own Conceptions. Thus we usual extol, and our Orations cannot escape the sayings of the wise men of Greece. Nosce teipsum, of Thales: Nosce tempus, of Pittacus: Nibil nimis, of Cleobulus; which notwithstanding to speak indifferently, are but vulgar precepts in Morality, carrying with them nothing above the line, or beyond the extemporary fententiofity of common conceit is with us. Thus we magnifie the Apothegms or reputed replies of Wildom, whereof many are to be feen in Laertius, more in Lycosthenes, not a few in the second Book of Macrobius, in the sals of Cicero, Augufrus, and the Comical wits of those times: in most whereof there is not much to admire, and are methinks exceeded, not only in the replies of wife men, but the passages of society, and urbanities of our times. And thus we extoltheir Adages, or Proverbs; and Erasmus hath taken great pains to make collections of them, whereof not withstanding, the greater part will, I believe, unto indifferent Judges be esteemd no extraordinaries; and may be parallel'd, if not exceeded, by those of more unlearned Nations, and many of our own.

Sixthly, We urge Authorities in points that need not, and introduce the testimony of ancient Writers, to confirm things evidently believed, and whereto no reasonable hearer but would assent without them; such as are, Nemo mortalium omnibus horis sapit. Virtute nil prastantius, nil pulchrius. Omnia vincit amor. Praclarum quiddam veritas. All which, although things known and vulgar, are frequently urged by many men, and though trivial verities in our mouths, yet, noted from Plato, Ovid, or Cicero, they become reputed elegancies. For many hundred to instance but in one we meet with while we are writing. Antonius Guevera that elegant Spaniard, in his Book entituled, The Dial of Princes, beginneth his Epistle thus. Apolonius Thraneus, disputing with the Scholars of Hiarchas, faid, that among all the affections of nature, nothing was more natural, then the defire all have to preferve life. Which being a confessed Truth, and a verity acknowledged by all, it was a superfluous affectation to derive its Authority from Apolonius, or feek a confirmation thereof as far as India, and the learned Scholars of Hiarchas. Which whether it be not all one to Arengthen common Dignities and Principles known by themselves, with the Authority of Mathematicians; or think aman should believe, the whole is greater then its parts, rather upon the Authority of Euclide, then if it were propounded alone; I leave unto the fecond and wifer cogitations of all men. 'Tis furea Practice that favours much of Pedantry; a referve of Puerility we have not shaken off from School; where being seasoned with Minor sentences, by a neglect

Apedantical
vanity to
quote Authors
in matters of
common fenfe
or of familiar
acknowledgement,

ofhigher Enquiries, they prescribe upon our riper ears, and are never worn out but with our memories.

Lastly, While we so devoutly adhere unto Antiquity in some things, we do not confider we have deferted them in several others. For they indeed have not onely been imperfect, in the conceit of some things, but either ignorant or erroneous in many more. They understood not some remarthe motion of the eighth sphear from West to East, and so conceived kable mistakes the longitude of the Stars invariable. They conceived the torrid Zone among the unhabitable, and so made frustrate the goodliest part of the Earth. But we now know 'tis very well empeopled, and the habitation thereof efteemed so happy, that some have made it the proper seat of Paradise; and been so far from judging it unhabitable, that they have made it the first habitation of all. Many of the Ancients denied the Antipodes, and fome unto the penalty of contrary affirmations; but the experience of our enlarged navigations, can now affert them beyond all dubitation. Having thus totally relinquish them in some things, it may not be presumtuous, to examine them in others; but furely most unreasonable to adhere to them in all, as though they were infallible, or could not err in any.

CHAP. VII.

of Anthority.

Tor is onely a refolved proftration unto Antiquity a powerful enemy unto knowledge, but any confident adherence unto Authority, or refignation of our judgements upon the testimony of Age or Author whatfoever.

For first, to speak generally an argument from Authority to wifer examinations, is but a weaker kind of proof; it being but a topical pro- Authority bation, and as we term it, an inartificial argument, depending upon a ((imply) but a naked affeveration: wherein neither declaring the causes, affections or ment especiadjuncts of what we believe, it carrieth not with it the reasonable in- ally. ducements of knowledge. And therefore Contra negantem principia, Ipfe dixit, or Oportet discentem credere, although Postulates very accommodable unto Junier indoctrinations; yet are their Authorities but temporary, and not to be imbraced beyond the minority of our intellectuals. For our advanced beliefs are not to be built upon dictates, but having received the probable inducements of truth, we become emancipated from testimonial engagements, and are to erect upon the urer bale of reason.

Secondly, Unto reasonable perpensions it hath no place in some Scien-

in the Mathematicks,

Sciences, finall in others, and futtereth many restrictions, even where it is most admitted. It is of no validity in the Mathematicks, especially the mother part thereof, Arithmetick and Geometry. For these Sciences concluding from dignities and principles known by themselves: receive not fatisfaction from probable reasons, much less from bare and peremptory affeverations. And therefore if all Athens should decree, that in every Triangle, twofiles, which foever be taken, are greater then the fide remaining, or that in rectangle triangles the fquare which is made of the side that subtendeth the right angle, is equal to the squares which are made of the fides containing the right angle: although there be a certain truth therein, Geometricians not with standing would not receive fatisfaction without demonstration thereof. 'Tis true, by the vulgarity of Philosophers, there are many points believed without probation; nor if a man affirm from Ptolomy, that the Sun is bigger then the Earth, shall he probably meet with any contradiction: whereunto notwithstanding Astronomers will not affent without some convincing argument or demonstrative proof thereof. And therefore certainly of all men a Philosopher thould be no swearer; for an oath which is the end of controversies in Law, cannot determine any here; nor are the deepest Sacraments or desperate imprecations of any force to perswade, where reason only, and necessary mediums must induce.

And Phylick.

In Natural Philosophy more generally pursued amongst us, it carrieth but slender consideration; for that also proceeding from settled Principles, therein is expected a fatisfaction from scientifical progressions, and fuch as beget a fure rational belief. For if Authority might have made out the affertions of Philosophy, we might have held that Snow was black, that the Sea was but the sweat of the Earth, and many of the like absurdities. Then was Aristotle injurious to fall upon Melissus, to reject the affertions of Anaxagoras, Anaximander, and Empedocles; then were we'll o ungrateful unto himfelf; from whom our funior endeavours embracing many things on his authority, our mature and fecondary enquiries, are forced to quit those receptions, and to adhere unto the nearer account of Reason. And although it be not unusual, even in Philosophical Tractates to make enumeration of Authors, yet are there reasons usually introduced, and to ingenious Readers do carry the stroke in the perswasion. And surely if we account it reasonable among our selves, and not injurious unto rational Authors, no farther to abet their Opinions then as they are supported by folid Reasons: certainly with more exculable refervation may we shrink at their bare testimonies; whose argument is but precarious, and subsists upon the charity of our affentments.

In Morality, Rhetorick, Law and History, there is I confessa frequent and allowable use of testimony; and yet herein I perceive, it is not unlimitable, but admitteth many restrictions. Thus in Law both Civil and

Divine :

Divine: that is onely esteemed a legal testimony, which receives comprobation from the mouths of at least two witnesses; and that not only for prevention of calumny, but assurance against mistake; whereas not withstanding the solid reason of one man, is as sufficient as the clamor of a whole Nation; and with imprejudicate apprehensions begets as simma belief as the authority or aggregated testimony of many hundreds. For reason being the very root of our natures, and the principles thereof common unto all, what is against the Laws of true reason, or the unerring understanding of any one, if rightly apprehended; must be disclai-

med by all Nations, and rejected even by mankind.

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Again, A testimony is of small validity if deduced from men out of their own profession; so if Lactantins affirm the Figure of the Earth is plain, or Anstin deny there are Antipodes; though venerable Fathers of the Church, and ever to be honoured, yet will not their Authorities prove sufficient to ground a belief thereon. Whereas not withstanding the solid reason or confirmed experience of any man, is very approvable in what profession soever. So Raymund Sebund a Physitian of Tholouze, besides his learned Dialogues De Natura bumana, hath written a natural Theologie; demonstrating therein the Attributes of God, and attempting the like in most points of Religion. So Hugo Grotime a Civilian, did write an excellent Tract of the verity of Christian Religion. Wherein most rationally delivering themselves, their works will be embraced by most that understand them, and their reasons enforce belief even from prejudicate Readers. Neither indeed have the Authorities of men been ever so awful; but that by some they have been rejected, even in their own professions. Thus Aristotle affirming the birth of the Infant or time of its gestation, extendeth sometimes unto the eleventh Month, but Hippocrates, averring that it exceedeth not the tenth: Adrian the Emperour in a solemn process, determined for Ari-Stotle; but Justinian many years after, took in with Hippocrates and reversed the Decree of the other. Thus have Councils, not only condemned private men, but the Decrees and Acts of one another. So Ga'en after all his veneration of Hippocrates, in some things hath fallen from him. Avicen in many from Galen; and others succeeding from And although the fingularity of Paracelfus be intolerable, who sparing onely Hippocrates, hath reviled not onely the Authors, but almost all the learning that went before him; yet is it not much less injurious unto knowledge obstinately and inconvincibly to fide with any one. Which humour unhappily possessing many, they have by prejudice withdrawn themselves into parties, and contemning the soveraignty of truth, seditiously abetted the private divisions of error.

Moreover a testimony in points Historical, and where it is of unavoidable use, is of no illation in the negative, nor is it of consequence that Herodoius writing nothing of Rome, there was therefore no such City

in his time; or because Disocorides hath made no mention of Unicorns horn, there is therefore no such thing in Nature. Indeed, intending an acurate enumeration of Medical materials, the omission hereof affords some probability, it was not used by the Ancients, but will not conclude the non-existence thereof. For so may we annihilate many Simples unknown to his enquiries, as Senna, R. hubarb, Bezour, Ambregris, and divers others. Whereas indeed the reason of man hath not such restraint; concluding not onely affirmatively but negatively; not onely affirming there is no magnitude beyond the last heavens, but also denying there is any vacuity within them. Although it be confessed, the affirmative hath the prerogative illation, and Barbara engrosseth the powerful demonstration.

Lastly, The strange relations made by Authors, may sufficiently discourage our adherence unto Authority, and which if we believe we must be apt to fwallow any thing. Thus Bast will tell us, the Serpent went erect like Man, and that that Beaft could speak before the Fall. Toftawould make us believe that Nilus encrealeth every new Moon. Leonardo Fioravanti an Italian Physitian, beside many other secrets, assumeth unto himself the discovery of one concerning Pollitory of the Wall; that is, that it never groweth in the fight of the Worth ftar. Done fi poffa vedere lastella Tramontana, wherein how wide he is from truth, is easily discoverable unto every one, who hath but Astronomy enough to know that Star. Franciscus Sanctius in a laudable Comment upon Alciats Emblems, affirmeth, and that from experience, a Nightingale bath no tongue. Avem Philomelam lingua carere procerto affirmare possum. nisi me oculi fallunt. Which if any man for a while shall believe upon his experience, he may at his leifure refute it by his own. What fool almost would believe, at least, what wife man would relie upon that Antidote delivered by Pierius in his Hieroglyphicks against the sting of of a Scorpion? that is, to sit upon an Ass with ones face toward his tail; for so the pain leaveth the Man, and passeth into the Beast. It were methinks but an uncomfortable receit for a Quartane Ague (and yet as good perhaps as many others used) to have recourse unto the Recipe of Sammonicus; that is, to lay the fourth Book of Homers lliads under ones head, according to the precept of that Physician and Poet, Maonia Iliados quartum suppone trementi. There are surely few that have belief to swallow, or hope enough to experiment the Collyrium of Albertus; which promifeth aftrange effect, and fuch as Thieves would count inestimable, that is, to make one see in the dark : yet thus much, according unto his receit, will the right eye of an Hedge-hog boiled in oyl, and preferved in a brazen vessel effect. As strange it is, and unto vicious inclinations were worth a nights lodging with Lais, what is delivered in Kiranides; that the left stone of a Weesel, wrapt up in the skin of a the Mule, is able to fecure incontinency from conception.

An eye medi-

Ten thousand

Thefe

These with swarms of others have men delivered in their Writings, whose verities are onely supported by their authorities: But being neither confonant unto realon, nor correspondent unto experiment, their affirmations are unto us no axioms: We esteem thereof as things unfaid. and account them but in the lift of nothing. I wish herein the (bymists had been more sparing: who over-magnifying their preparations. inveigle the curiofity of many, and delude the security of most. For if experiments would answer their encomiums, the Stone and Quartane Agues were not opprobrious unto Physitians: we might contemn that first and most uncomfortable Aphorism of Hippocrates, for surely that Art longs, vita Art were foon attained, that hath fo general remedies; and life could breve, not be fhort, were there fuch to prolong it.

CHAP. VIII.

A brief enumeration of Authors.

Ow for as much as we have discoursed of Authority, and there is scarce any tradition or popular error but stands also delivered by some good Author; we shall endeavour a short discovery of such, as for the major part have given authority hereto: who though excellent and useful Authors, yet being either transcriptive, or following common relations, their accounts are not to be swallowed at large, or entertained without all circumspection. In whom the ipse dixist, although it be no powerful argument in any, is yet less authentick then in many other, because they deliver not their own experiences, but others affirma-

tions, and write from others, as later pens from them.

1. The first in order, as also in time shall be Herodotus of Halicarnaf- The Authors fus. An excellent and very elegant Historian ; whose Books of History judgement, or were so well received in his own days, and at their rehearfal in the a character gi-Olympick games, they obtained the names of the nine Muses; and con- ven of some etinued in such esteem unto descending Ages, that Cicero termed him, thors. Historiarum parens. And Dionysus his Countryman, in an Epistle to Pompey, after an express comparison, affords him the better of Thueydides; all which notwithstanding, he hath received from some, the stile of Mendaciorum pater. His authority was much infringed by Plutarch, who being offended with him, as Polybius had been with Philarcus for speaking too coldly of his Countrymen, hath left a particular Tract, Demalignitate Herodoti. But in this latter Century, Camerarius and Stephanus have stepped in, and by their witty Apologies, effectually endeavoured to frustrate the Arguments of Plutarch, or any other. Now in this Author, as may be observed in our ensuing discourse, and is better discourable

in the perusal of himself, there are many things sabulously delivered, and not to be accepted as truths: whereby nevertheless if any man be deceived, the Author is not so culpable as the Believer. For he indeed imitating the FatherPoet, whose life he hath also written, and as Timesdides observeth, as well intending the delight as benefit of his Reader, hath besprinkled his work with many sabulosities; whereby it any man be ded into error, he mistaketh the intention of the Author, who plainly confesseth he written many things by hear-say, and forgetteth a very considerable caution of his; that is, Ego que fando cognovi, exponere narratione

mea debeo omnia: credire autem effe vera omnia, non debeo.

3. In the second place is Cresias the Chidian, Physician unto Artaxerxes King of Persia, his Books are often recited by ancient Writers, and by the industry of Stephanus and Rhodomanus, there are extant some fragments thereof in our days; he wrote the History of Persia, and many narrations of India. In the fuft, as having a fair opportunity to know the truth, and as Diodorus affirmeth the perulal of Persian Records, his testimony is acceptable. In his Indian Relations, wherein are contained ftrange and incredible accounts, he is furely to be read with suspension. These were they which weakned his authority with former ages; for as we may observe, he is seldom mentioned, without a derogatory Parenthefis in any Author. Aristotle besides the frequent undervaluing of his authority, in his Books of Animals gives him the lie no less then twice, concerning the feed of Elephants. Strabo in his cleventh Book hath left a harder censure of him. Equidem facilius Hefiodo & Homero, aliquis fidem adhibuerit, itemque Tragicis Poetis, quam Ctefie, Herodoto, Hellanico er corum similibis. But Lucian hath spoken more plainer then any. Scripst Ctesias de Indorum regione, deque iu que apud illos sunt, ea que nec ipse vidit, neque ex ullius sermone andivit. Yet were his relations taken up by some succeeding Writers, and many thereof revived by our Countryman, Sir John Mandevil, Knight, and Doctor in Phylick; who after thirty years peregrination died at Liege, and was there honourably interred. He left a Book of his Travels, which hath been honoured with the translation of many Languages, and now continued above three hundred years; herein he often attesteth the fabulous relations of (tefias, and feems to confirm the refuted accounts of Antiquity. All which may still be received in some acceptions of morality, and to a pregnant invention, may afford commendable mythologie; but in a natural and proper exposition, it containeth impossibilities, and things inconsistent withtruth.

There is a Book De mirandis auditionibus, afcribed unto Aristotle; another De mirabilibus narrationibus, written long after by Antigonus, another also of the same title by Plegon Trallianus, translated by Xilander, and with the Annotations of Menrisus, all whereof make good the promise of their titles, and may be read with caution. Which if any man shall

shall likewise observe in the Lecture of Philostratus, concerning the life of Apollonius, and even in some passages of the sober and learned Plutarchus; or not only in ancient Writers, but shall carry a wary eye on Paulus Venetus, fovim, Olaus Magnus, Nierembergius, and many other: I think his circumspection is laudable, and he may thereby decline occafion of Error.

4. Dioscorides Anazarbens, he wrote many Books in Physick, but fix thereof De Materia Medica, have found the greatest esteem ; heis an Author of good antiquity and use, preferred by Galen before Cratevas, Pamp ilus, and all that attempted the like description before him; vet all he delivereth therein is not to be conceived Oraculous. For befide that, following the wars under Anthony, the course of his life would not permit a punctual Examen in all; there are many things concerning the nature of Simples, traditionally delivered, and to which I believe he gave no affent himfelf. It had been an excellent Receit, and in his time when Saddles were scarce in fashion of very greatule, if that were true which de delivers, that Vitex, or Agnus Castus held only in the hand, preserveth the rider from galling. It were a strange effect, and Whores A like opinion would forfake the experiment of Savine, if that were a truth which he Elder, delivereth of Brake or female Fearn, that onely treading over it, it caufetha sudden abortion. It were to be withed true, and women would idolize him, could that be made out which he recordeth of Phyllon, Mercury, and other vegetables, that the juice of the male Plant drunk, or the leaves but applied unto the genitals, determines their conceptions unto males. In these relations although he be more sparing, his predeceffors were very numerous; and Galen hereof most sharply accuseth Pamphilus. Many of the like nature we meet sometimes in Oribasius, Atins, Trallianus, Serapion, Evax, and Marcellus, whereof some containing no colour of verity, we may at first fight reject them; others which feem to carry some face of truth, we may reduce unto experiment. And herein we shall rather perform good offices unto truth, . then any differvice unto their relators, who have well deferved of fuceceding Ages; from whom having received the conceptions of former Times, we have the readier hint of their conformity with ours, and may accordingly explore and fift their verities.

5. Plinius Secundus of Verona; a man of great Eloquence, and induftry indefatigable, as may appear by his writings, especially those now extant, and which are never like to perith, but even with learning it felt; that is, his Natural History. He was the greatest Collector or Rhapsodist of the Latines, and as Suetonins observeth, he collected this piece out of two thousand Latine and Greek Authors. Now what is very Plinies Natustrange, there is scarce a popular error passant in our days, which is not ral History either directly expressed, or diductively contained in this Work; which of 2000 feve being in the hands of moltimen, hath proved a powerful occasion of their ral Authors.

propagation. Wherein notwithstanding the credulity of the Reader, is more condemnable then the curiosity of the Author: for commonly he nameth the Authors from whom he received those accounts, and writes but as he reads, as in his Preface to Pespasian he acknow-

ledgeth.

6. Claudius Ælianus, who flourished not long after in the reign of Trajan, unto whom he dedicated his Tacticks; an elegant and miscellaneous Author, he hath left two Books which are in the lands of every one, his History of Animals, and his Varia Historia. Wherein are contained many things suspicious, not a few false, some impossible; he is much beholding unto Ctessas, and in many uncertainties writes more con-

fidently then Pliny.

7. Julius Solinus, who lived also about his time: He lest a Work entituled Polyhistor, containing great variety of matter, and is with most in good request at this day. But to speak freely what cannot be concealed, it is but Pliny varied, or a transcription of his Natural History: nor is it without all wonder it hath continued so long, but is now likely, and deserves indeed to live for ever; not onely for the elegancy of the Text, but the excellency of the Comment, lately performed by Salmasius, under the name of Plinian-Exercitations.

8. Athenaus, a delectable Author, very various, and justly stiled by Casaubon, Gracorum Plinius. There is extant of his, a famous Piece, under the name of Deipnosophista, or Cana Sapientum, containing the Discourse of many learned men, at a Feast provided by Laurentius. It is a laborious Collection out of many Authors, and some whereof are mentioned no where else. It containeth strange and singular relations, not without some spice or sprinkling of all Learning. The Author was probably a better Grammarian then Philosopher, dealing but hardly with Aristotle and Plato, and betrayeth himself much in his Chapter De Curiositate Aristotelis. In brief, he is an Author of excellent use, and may with discretion be read unto great advantage: and hath therefore well deserved the Comments of Casaubon and Dalecampius. But being miscellaneous in many things, he is to be received with suspition; for such as amass all relations, must erre in some, and may without offence be unbelieved in many.

9. We will not omit the works of Nicander, a Poet of good antiquity: that is, his Theriaca, and Alexipharmaca, Translated and Commented by Gorraus: for therein are contained several Traditions, and popular Conceits of venemous Beasts; which only deducted, the Work is to be embraced, as containing the sirst description of poysons and their antidotes, whereof Dioscorides, Pliny, and Galen, have made especial use in elder times; and Ardonnus, Grevinus, and others, in times more near our own. We might perhaps let pass Oppianus, that samous Cincar our own.

lician

lician Poet. There are extant of his in Greek, four Books of Cynegeticks or Venation, five of Halieuticks or Piscation, commented and published by Ritterhusius; wherein describing Beasts of venery and Fishes, he hath indeed but sparingly inserted the vulgar conceptions thereof. So that abating the annual mutation of Sexes in the Hyana, the fingle Sex of the Rhinoceros, the Antipathy between two Drums, of a Lamb and a Wolfes skin, the informity of Cubs, the venation of Centaures, the copulation of the Murena and the Viper, with some few others, he may be read with great delight and profit. It is not without fome wonder his Elegant Lines are soneglected. Surely hereby were-ject one of the best Epick Poets, and much condemn the Judgement of Hexameters, Antoninus, whose apprehensions so honoured his Poems, that as some or long verses. report, for every verse, he affigued him a Stater of Gold.

10. More warily are we to receive the relations of Philes, who in Greek lambicks delivered the proprieties of Animals, for herein he hath amassed the vulgar accounts recorded by the Ancients, and hath therein especially followed Alian. And likewife Johannes Tzetzes, a Grammarian, who besides a Comment upon Hesiod and Homer, hath left us (hiliads de Varia Historia; wherein delivering the accounts of Ctesias, Herodotus, and most of the Ancients, he is to be embraced with caution,

and as a transcriptive Relator.

11. We cannot without partiality omit all caution even of holy Writers, and luch whose names are venerable unto all posterity: not to meddle at all with miraculous Authors, or any Legendary relators, we are not without circumspection to receive some Books even of authentick and renowned Fathers. So are we to read the leaves of Basil and Ambrofe, in their Books entituled Hexameron, or The Description of the Creation; Wherein delivering particular accounts of all the Creatures, they have left us relations futable to those of Elian, Plinie, and other Natural Writers; whose authorities herein they followed, and from whom most probably they desumed their Narrations. And the like hath been committed by Epiphanius, in his Physiologie: that is, a Book he hath left concerning the Nature of Animals. With no less caution must we look on Isidor Bishop of Sevil; who having left in twenty Books, an acurate work De Originibus, hath to the Etymologie of Words, superadded their received Natures; wherein most generally he consents with common Opinions and Authors which have delivered them.

12. Albertus Bishop of Ratisbone, for his great Learning and latitude of Knowledge, sienamed Magnus. Besides Divinity, he hath written many Tracts in Philosophy; what we are chiefly to receive with caution, are his Natural Tractates, more especially those of Minerals, Vegetables, and Animals, which are indeed chiefly Collections out of Aristotle, Ælian, and Plany, and respectively contain many of our popular Errors. A man who hath much advanced these Opinions by the authority of his Name, and

delivered most Conceits, with strict Enquiry into sew. In the same Classis may well be placed Vincentius Belluacensis, or rather he from whom he collected his Speculum naturale, that is, Guilielmus de Conchis; and also Hortus Sanitatis, and Bartholomeus Glanvil, sirnamed Anglicus, who writ De proprietatibus Rerum. Hither also may be referred Kiranides, which is a Collection out of Harpocration the Greek, and sundry Arabick Writers; delivering not onely the Natural but Magical propriety of things; a Work as full of Vanity as Variety; containing many relations, whose Invention is as difficult as their Beliefs, and their Experiments sometime as hard as either.

of Milan, a great Enquirer of Truth, but too greedy a Receiver of it. He hath left many excellent Discourses, Medical, Natural, and Astrological; the most suspicious are those two he wrote by admonition in a dream, that is De Subtilitate & Varietate Rerum. Assuredly this learned man hath taken many things upon trust, and although examined some, hath let slip many others. He is of singular use unto a prudent Reader; but unto him that onely desireth Hoties, or to replenish his head with varieties; like many others before related, either in the Original or confirmation, he may become no small occasion of Error.

14. Lastly, Authors are also suspicious, not greedily to be swallowed, who pretend to write of Secrets, to deliver Antipathies, Sympathies, and the occult obstrusties of things; in the list whereof may be accounted, Alex Pedimontanus, Antonius Mizaldus, Trinum Magicum, and many others. Not omitting that samous Philosopher of Naples, Baptista Porta; in whose Works, although there be contained many excellent things, and verified upon his own Experience; yet are there many also receptary, and such as will not endure the test. Who although he hath delivered many strange Relations in his Phytognomia, and his Villa; yet hath he more remarkably expressed himself in his Natural Magick, and the miraculous effects of Nature. Which containing various and delectable subjects, withall promising wondrous and easie effects, they are entertained by Readers at all hands; whereof the major part sit down in his authority, and thereby omit not onely the certainty of Truth, but the pleasure of its Experiment.

Thus have we made a brief enumeration of these Learned Men; not willing any to decline their Works (without which it is not easie to attain any measure of general Knowledge,) but to apply themselves with caution thereunto. And seeing the lapses of these worthy Pens, to cast a wary eye on those diminutive, and pamphlet Treaties daily published amongst us. Pieces maintaining rather Typography then Verity, Authors presumably writing by Common Places, wherein for many years promiseuously amassing all that makes for their subject, they break forth at last in trite and fruitless Rhapsodies; doing thereby not only open

injury.

injury unto Learning, but committing a fecret treachery upon truth. For their relations falling upon credulous Readers, they meet with prepared beliefs; whose supinities had rather affent unto all, then adven-

ture the trial of any.

Thus, I fay, must these Authors be read, and thus must we be read our felves; for discoursing of matters dubious, and many convertible truths; we cannot without arrogancy entreat a credulity, or implore any farther affent, then the probability of our Reasons, and verity of experiments induce.

CHAP IX.

Of the same.

Here are beside these Authors and such as have positively promoted errors, divers other which are in some way accessory; whose verities although they do not directly affert, yet do they obliquely concur unto their beliefs. In which account are many holy Writers, Preachers, Moralists, Rhetoricians, Orators and Poets; for they depending upon Invention, deduce their mediums from all things what foever; and playing much upon the fimile, or illustrative argumentation: to induce their Enthymemes unto the people, they took up popular conceits, and from traditions unjustifiable or really false, illustrate matters of undcniable truth. Wherein although their intention be sincere, and that course not much condemnable; yet doth it notoriously strengthen common Errors, and authorise Opinions injurious unto truth.

Thus have fome Divines drawn into argument the Fable of the Phanix, made use of that of the Salamander, Pelican, Basilisk, and divers relations of Plinie; deducing from thence most worthy morals, and even upon our Saviour. Now although this be not prejudicial unto wifer Judgments, who are but weakly moved with fuch arguments, yet it is oft times occasion of Error unto vulgar heads, who expect in the Fable as equal a truth as in the Moral, and conceive that infallible Philofophy, which is in any fense delivered by Divinity. But wifer discerners do well understand, that every Art hath its own circle; that the Expressions of effects of things are best examined, by sciences wherein are delivered holy Scripture their causes; that strict and definitive expressions, are alway required in times rather Philosophy, but a loose and popular delivery will serve oftentimes in to popular and Divinity. As may be observed even in holy Scripture, which often common apomitteth the exact account of things; describing them rather to our ap- prehension, prehensions, then leaving doubts in vulgar minds, upon their unknown exact Nature and Philosophical descriptions. Thus it termeth the Sun and the Moon of things.

In his Cyclo-

metria.

the two great lights of Heaven. Now if any shall from hence conclude, the Moon is second in magnitude unto the Sun, he must excuse my belief; and it cannot be strange, if herein I rather adhere unto the demonstration of Ptolomy, then the popular description of Moses. Thus is it said, Chron. 2. 4. That Solomon made a molten Sea of ten Cubits from brim to brim round in compass, and five Cubits the height thereof, and a line of thirty Cubits did compass it round about. Now in this description, the circumference is made just treble unto the Diameter: that is, as 10. to 30. or 7. to 21. But Archimedes demonstrates, that the proportion of the Diameter unto the circumference, is as 7. unto almost 22. which will occasion a sensible difference, that is almost a Cubit. Now if herein I adhere unto Archimedes who speaketh exactly, rather then the sacred Text which speaketh largely; I hope I shall not offend Divinity: I am sure I shall have reason and experience of every circle to support me.

Thus Moral Writers, Rhetoricians and Orators make use of several relations which will not consist with verity. Aristotle in his Ethicks takes up the conceit of the Bever, and the divulsion of his Testicles. The tradition of the Bear, the Viper, and divers others are frequent amongst Orators. All which although unto the illiterate and undiscerning hearers may seem a confirmation of their realities; yet is this no reasonable establishment unto others, who will not depend hereon otherwise then common Apologues: which being of impossible fassities, do notwithstanding include whossome moralities, and such as expiate

the trespass of their absurdities.

The Hieroglyphical doctrine of the Ægyptians (which in their four hundred years cohabitation some conjecture they learned from the Hebrews) hath much advanced many popular conceits. For using an Alphabet of things, and not of words, through the image and pictures thereof, they endeavoured to speak their hidden conceits in the letters and language of Nature. In pursuit whereof, although in many things, they exceeded not their true and real apprehensions; yet in some other they either framing the story, or taking up the tradition, conducible unto their intentions, obliquely confirmed many falsities; which as authentick and conceded truths did after pass unto the Greeks, from them unto other Nations, and are still retained by symbolical Writers, Emblematists, Heralds, and others. Whereof some are strictly maintained for truths, as naturally making good their artificial representations; others symbolically intended, are literally received, and swallowed in the first sense, without all gust of the second. Whereby we pervert the profound and mysterious knowledge of Ægypt; containing the Arcana's of Greek Antiquities, the Key of many obscurities and ancient learning extant. Famous herein in former Ages were Heraifene, Cheremon, Epius, especially Orus Apollo Niliacus: who lived in the reign

of Theodosius, and in Ægyptian language lest two Books of Hierogly-phicks, translated into Greek by Philippus, and a large collection of all made after by Pierius. But no man is likely to profound the Ocean of that Doctrine, beyond that eminent example of industrious Learning, Kircherus.

Painters who are the visible representers of things, and such as by the learned sense of the eye endeavour to inform the understanding, are not inculpable herein, who either describing Naturals as they are, or actions as they have been, have oftentimes erred in their delineations. Which being the Books that all can read, are fruitful advancers of these conceptions, especially in common and popular apprehensions: who being unable for farther enquiry, must rest in the draught and letter of

their descriptions.

Lastly, Poets and Poetical Writers have in this point exceeded others. trimly advancing the Ægyptian notions of Harpies, Phanix, Gryphins, and many more. Now however to make use of Fictions, Apologues, and Fables; be not unwarrantable, and the intent of these inventions might point at laudable ends; yet do they afford our junior capacities a frequent occasion of error, fetling impressions in our sender memories. which our advanced judgments generally neglect to expunge. This way the vain and idle fictions of the Gentiles did first infinuate into the heads of Christians; and thus are they continued even unto our days. Our first and literary apprehensions being commonly intructed in Authors which handle nothing elfe; wherewith our memories being stuffed, our inventions become pedantick, and cannot avoid their allusions; driving at these as at the highest elegancies, which are but the frigidities of wit, and become not the genius of manly ingenuities. It were therefore no loss like that of Galens Library, if these had found the same fate; and would in some way require the neglect of solid Authors, if they were less pursued. For were a pregnant wit educated in ignorance hereof, receiving only impressions from realities; upon such folid foundations, it must surely raise more substantial superstructions. and fall upon very many excellent strains, which have been justed off by their intrusions.

CHAP. X.

Of the last and common Promoter of false Opinions, the endeavours of Satan.

DUt beside the infirmities of humane Nature, the seed of Error within our selves, and the several ways of delusion from each other, there is an invisible Agent, and secret promoter without us, whose activity is undifcerned, and plays in the dark upon us; and that is the first contriver of Error, and professed opposer of Truth, the Devil. For though permitted unto his proper principles, Adam perhaps would have finned without the fuggestion of Satan: and from the transgressive infirmitives of himself might have erred alone, as well as the Angels beforehim: And although also there were no Devil at all, yet there is now in our Natures a confessed sufficiency unto corruption, and the frailty of our own Occonomie, were able to betray us out of Truth, yet wants there not another Agent, who taking advantage hereof proceedeth to obscure the diviner part, and efface all tract of its traduction. To attempt a partitular of all his wiles, is too bold an Arithmetick forman: what most considerably concerneth his popular and practifed ways of delusion, he fifft deceiveth mankind in five main points concerning God and himfelf.

The Devils method of propagating Error in the World.

And frest his endeavours have ever been, and they cease not yet to instill a belief in the mind of Man, there is no God at all. And this he principally endeavours to establish in a direct and literal apprehension; that is, that there is no fuch reality existent, that the necessity of his entity dependeth upon ours, and is but a Political Chymera; that the natural truth of God is an artificial erection of Man, and the Creator himfelf but a subtile invention of the Creature. Where he succeeds not thus high, he labours to introduce a secondary and deductive Atheism; that although men concede there is a God, yet should they deny his providence. And therefore affertions have flown about, that he intendeth only the care of the species or common natures, but letteth loose the guard of individuals, and fingle existencies therein: that he looks not below the Moon, but hath designed the regiment of sublunary affairs unto inferiour deputations. To promote which apprehensions, or empuzzel their due conceptions, he casteth in the notions of fate, destiny, fortune, chance, and necessity; terms commonly misconceived by vulgar heads, and their propriety sometime perverted by the wisest. Whereby extinguishing in minds the compensation of vertue and vice, the hope and fear of Heaven or Hell; they comply in their actions unto the drift of his delutions, and live like creatures without the capacity of either. Now

Now hereby he not onely undermineth the Bafe of Religion, and de-Broyeth the principle preambulous unto all belief; but puts upon us the remotest Error from Truth. For Atheism is the greatest fallity, and to affirm there is no God, the highest lie in Nature. And therefore ftrietly taken, some men will say his labour is in vain; For many there are, who cannot conceive there was ever any absolute Atheift; or fuch as could determine there was no God, without all check from himfelf. or contradiction from his other opinions. And therefore those few to called by elder times, might be the best of Pagans; suffering that name rather in relation to the gods of the Gentiles, then the true Creator of all. A conceit that cannot befal his greatest enemy, or him that would induce the fame in us; who hath a fenfible apprehension hereof, for he believeth with trembling. To speak yet more strictly and conformably unto some Opinions, no creature can wish thus much; nor can the Will which bath a power to run into velleities, and wishes of impossibilities, have any utinam of this. For to desire there were no God, were plainly to unwish their own being; which must needs be annihilated in the substraction of that effence which substantially supporteth them, and restrains them from regression into nothing. And if as fome contend, no creature can defire his own annihilation, that Nothing is not appetible, and not to be at all, is worse then to be in the miserablest condition of fomething; the Devil himself could not embrace that motion, nor would the enemy of God be freed by fuch a Redemption.

But coldly thriving in this defign, as being repulfed by the principles of humanity, and the dictates of that production, which cannot deny its original, he fetcheth a wider circle; and when he cannot make men conceive there is no God at all, he endeavours to make them believe there is not one, but many: wherein he hath been to fuccessful with common heads, that he hath led their belief thorow all the Works of

Nature.

Now in this latter attempt, the subtilty of his circumvention, hath indirectly obtained the former. For although to opinion there be many gods, may feem an excess in Religion, and such as cannot at all confift with Atheism, yet doth it deductively and upon inference include the same, for Unity is the inseparable and effential attribute of Deity; and if there be more then one God, it is no Atheism to say there is no God at all. And herein though Socrates only suffered, yet were Plato and Aristotle guilty of the same Truth; who demonstratively understanding the simplicity of perfection, and the indivisible condition of Arcopagus the the first causator, it was not in the power of Earth, or Areopagy of of Athen. Hell to work them from it. For holding an * Apodictical knowledge, * Demonstraand affured science of its verity, to perswade their apprehensions unto a tive. plurality of gods in the world, were to make Euclide believe there were

more then one Center in a Circle, or one right Angle in a Triangle; which were indeed a fruitless attempt, and inferreth absurdities beyond the evalion of Hell. For though Mechanick and vulgar heads afcend not unto fuch comprehensions, who live not commonly unto half the advantage of their principles; yet did they not escape the eye of wifer Minerva's, and fuch as made good the genealogie of Jupiters brains : who although they had divers stiles for God, yet under many appellations acknowledged one divinity: rather conceiving thereby the evidence or acts of his power in several ways and places, then a multiplica-

tion of Essence, or real distraction of unity in any one.

Again, To render our errors more monttrous (and what unto miracle fets forth the patience of God,) he hath endeavoured to make the world believe, that he was God himself; and failing of his first attempt to be but like the highest in Heaven, he hath obtained with men to be the same on And hath accordingly affumed the annexes of Divinity, and the prerogatives of the Creator, drawing into practice the operation of miracles, and the prescience of things to come. Thus hath he in a specious way wrought cures upon the fick: played over the wondrous acts of Prophets, and counterfeited many miracles of Christ and his Apostles. Thus hath he openly contended with God, and to this effect his infolency was not ashamed to play a solemn prize with Moses; wherein although his performance were very specious, and beyond the common apprehension of any power below a Deity; yet was it not such as could make good his Omnipotency. For he was wholly confounded in the conversion of dust into lice. An act Philosophy can scarce deny to be above the power of Nature, nor upon a requifite predisposition beyond the efficacy of the Sun. Wherein not withstanding the head of the old Serpent was confessedly too weak for Moses hand, and the arm of his Magicians too short for the finger of God.

Thus hath he also made men believe that he can raise the dead, that he hath the key of life and death, and a prerogative above that principle which makes no regression from privations. The Stoicks that opinioned the fouls of wife men dwelt about the Moon, and those of fools wandredabout the Earth, advantaged the conceit of this effect; wherein the Epicureans, who held that death was nothing, nor nothing after death, must contradict their principles to be deceived. Nor could the Phythagorian or luch as maintained the transmigration of souls give easie admittance hereto: for holding that separated souls successively supplied The Authors other bodies, they could hardly allow the railing of fouls from other worlds, which at the fame time, they conceived conjoyned unto bodies in this. More inconsistent with these Opinions, is the Error of Christians, who holding the dead do rest in the Lord, do yet believe they are ar the lure of the Devil; that he who is in bonds himself commandeth men departed, the fetters of the dead, and dwelling in the bottomless lake, the blessed

opinion, touching Necromancy and apparitions of the fpires of

from Abrahams bosome, that can believe the real resurrection of Samuel: or that there is any thing but delution in the practice of *Ne- Divination cromancy and popular railing of Gholts.

by the dead.

He hath morcover endeavoured the opinion of Deity, by the delution of Dreams, and the discovery of things to come in sleep, above the prescience of our waked senses. In this expectation he perswaded the credulity of elder times to take up their lodging before his temple, in skins of their own facrifices: till his refervedness had contrived answers, whose accomplishments were in his power, or not beyond his presagement. Which way, although it hath pleased Almighty God, sometimes to reveal himself, yet was the proceeding very different. For the reveal himself, lations of Heaven are conveyed by new impressions, and the immediate works his preillumination of the foul, whereas the deceiving spirit, by concitation of tions or prehumours, produceth his conceited phantains, or by compounding the dictions. species already residing, doth make up words which mentally speak his

intentions.

But above all he most advanced his Deity in the solemn practice of Oracles, wherein in feveral parts of the World, he publikely professed his Divinity; but how thort they flew of that spirit, whose omniscience, they would refemble, their weakness sufficiently declared. What jugling there was therein, the Orator plainly confessed, who being good Demostlement at the same game himself, could say that Pythia Philippised. Who can but laugh at the carriage of Ammon unto Alexander, who addressing unto him as a god, was made to believe, he was a god himself? How openly did he betray his Indivinity unto Crasius, who being ruined by his Amphibology, and expostulating with him for so ungrateful a deceit, received no higher answer then the excuse of his impotency upon the contradiction of fate, and the fetled law of powers beyond his power to controle! What more then sublunary directions, or, such as might proceed from the Oracle of humane Reason, was in his advice unto the Spartans in the time of a great Plague; when for the ceffation thereof, he wisht them to have recourse unto a Fawn, that is in open terms, unto one Nebrus, a good Physitian of those days? From no di- Nebros, in viner a spirit came his reply unto Caracalla, who requiring a remedy Greek, a Fawn for his Gout, received no other counselthen to refrain cold drink; which was but a dietetical caution, and fuch as without a journey unto Asculapius, culinary prescription and kitchin Aphorisms might have afforded at home. Nor furely if any truth there were therein, of more then natural activity was his counsel unto Democratus; when for the Falling-sickness he commended the Maggot in a Goats head. For many things secret are true; sympathies and antipathies are fafely authentick unto us, who ignorant of their causes may yet acknowledge their effects. Beside, being a natural Magician he may perform manyacts in ways above our knowledge, though not transcending our natural power,

when our knowledge shall direct it. Part hereof hath been discovered by himself, and some by humane indagation: which though magnified as fresh inventions unto us, are stale unto his cognition. I hardly believe he hath from elder times unknown the verticity of the Loadstone; furely his perfpicacity discerned it to respect the North, when ours beheld it indeterminately. Many fecrets there are in Nature of difficult discovery unto man, of easie knowledge unto Satan; whereof some his

vain glory cannot conceal, others his envy will not discover.

Again, Such is the mysterie of his delusion, that although he labour to make us believe that he is God, and supremest nature whatsoever, yet would he also perswade our beliefs, that he is less then Angels or men; and his condition not onely subjected unto rational powers, but the actions of things which have no efficacy on our felves. Thus hath he inveigled no small part of the world into a credulity of artificial Magick: That there is an Art, which without compact commandeth the powers of Hell; whence some have delivered the polity of spirits, and left an account even to their Provincial Dominions: that they stand in awe of Charms, Spels, and Conjurations; that he is afraid of letters and characters, of notes and dashes, which set together do signific nothing, not only in the dictionary of man, but the fubriler vocabulary of Satan, That there is any power in Bitumen, Pitch, or Brimstone, to purifie the air from his uncleanness; that any vertue there is in Hipericon to make good the name of fuga Damonis, any such Magick as is ascribed unto the Root Baaras by Fosephus, or (mospastus by Elianus, it is not easie to believe; nor is it naturally made out what is delivered of Tobias, that by the fume of a Fishes liver, he put to flight Asmodeus. That they are afraid of the pentangle of Solomon, though fo fet forth with the bcdy of man, as to touch and point out the five places wherein our Saviour was wounded, I know not how to affent. If perhaps he hath fled from holy Water, if he cares not to hear the found of * Tetragrammaton, if his eye delight not in the fign of the Cross; and that sometimes he will feem to be charmed with words of holy Scripture, and to flie from the letter and dead verbality, who must onely start at the life and animated interiors thereof: It may be feared they are but Parthian flights, Ambuscado retreats, and elusory tergiversations: Whereby to confirm our credulities, he will comply with the opinion of fuch powers, which in themselves have no activities. Whereof having once begot in our minds an affured dependance, he makes us relie on powers which he but precariously obeys; and to defert those true and only charms which Hell cannot withstand.

* Implying Ichovah, which in Hebrew confifteth of four letters.

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Lastly, To lead us farther into darknels, and quite to lose us in this maze of Error, he would make men believe there is no fuch creature as himself: and that he is not only subject unto inferiour creatures, but in the rank of nothing. Infinuating into mens minds there is no Devil at

all, and contriveth accordingly, many ways to conceal or indubitate his existency. Wherein beside that, he annihilates the blessed Angels and Spirits in the rank of his Creation; he begets a security of himself, and a careless eyeunto the last remunerations. And therefore hereto he inveigleth, not only Sadduces and fuch as retain unto the Church of God: but is also content that Epicurus, Democritus, or any Heathen should hold the same. And to this effect he maketh men believe that apparitions, and fuch as confirm his existence are either deceptions of fight, or melancholly depravements of phantie. Thus when he had not onely appeared but spake unto Brutus; Cassius the Epicurian was ready at hand to perswade him, it was but a mistake in his weary imagination, and that indeed there were no such realities in nature. Thus he endeavours to propagate the unbelief of Witches, whose concession infers his co-existency; by this means also he advanceth the opinion of total death, and flaggereth the immortality of the foul; for, fuch as deny there are spirits subfiltent without bodies, will with more difficulty affirm the separated existence of their own.

Now to induce and bring about these falsities, he hath laboured to destroy the evidence of Truth, that is the revealed verity and written Word of God. To which intent he hath obtained with some to repudiate the Books of Moses, others those of the Prophets, and some both: to deny the Gospel and authentick Histories of Christ; to reject that of John, and to receive that of Judas; to disallow all, and erect another of Thomas. And when neither their corruption by Valentinus and Arrius, their mutilation by Marcion, Manes, and Ebion could satisfie his design, he attempted the ruine and total destruction thereof; as he sedulously endeavoured, by the power and subtilty of

Julian, Maximinus, and Dioclesian.

But the longevity of that piece, which hath so long escaped the common fate, and the providence of that Spirit which ever waketh over it, may at last discourage such attempts; and if not make doubtful its Mortality, at least indubitably declare; this is a stone too big for Saturns

mouth, and a bit indeed Oblivion cannot swallow.

And thus how strangely he possessed us with Errors may clearly be observed, deluding us into contradictory and inconsistent fassities; whilest he would make us believe, That there is no God. That there are many. That he himself is God. That he is less then Angels or

Men. That he is nothing at all.

Nor hath he onely by these wiles depraved the conception of the Creator, but with such Riddles hath also entangled the Nature of our Redeemer. Some denying his Humanity, and that he was one of the Angels, as Ebion; that the Father and Son were but one person, as Sabellius. That his body was phantastical, as Manes, Basilides, Priscillian, Jovinianus; that he only passed through Mary, as Viyebes and

Valentinus. Some denying his Divinity; that he was begotten of humane principles, and the feminal Son of Joseph; as Carpocras, Symmachus, Photinus; that he was Seth the Son of Adam, as the Sethians: that he was less then Angels, as Cherinthus: that he was inferiour unto Melchisedec, as Theodotus: that he was not God, but God dwelt in him, as Nicholaus: and some embroyled them both. So did they which converted the Trinity into a Quaternity, and affirmed two persons in Christ, as Paulus Samosatenus: that held he was Man without a Soul, and that the Word performed that office in him, as Apollinaris: that he was both Son and Father, as Montanus: that Telus luffered, but Christ remained impatible, as Cherinthus. Thus he endeavours to entangle Truths: And when he cannot possibly destroy its substance, he cunningly confounds its apprehensions; that from the inconsistent and contrary determinations thereof, confectary impieties, and hopeful conclusions may arise, there's no fuch thing at all.

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CHAP. XI.

A further Illustration.

Ow although these ways of delusions most Christians have escaped, yet are there many other whereunto we are daily betrayed, and these we meet with in obvious occurrents of the world, wherein he induceth us, to ascribe effects unto causes of no cognation; and distorting the order and theory of causes perpendicular to their effects, he draws them aside unto things whereto they run parallel, and in their

proper motions would never meet together.

Thus doth he sometime delude us in the conceits of Stars and Meteors, beside their allowable actions ascribing effects thereunto of independent causations. Thus hath he also made the ignorant fort believe that natural effects immediately and commonly proceed from supernatural powers: and these he usually drives from Heaven, his own principality the Air, and Meteors therein; which being of themselves the effects of natural and created causes, and such as upon a due conjunction of actives and passives, without a miracle must arise unto what they appear; are always looked on by ignorant spectators as supernatural spectacles, and made the causes or signs of most succeeding contingencies. To behold a Rainbow in the night, is no progidy unto a Philosopher. Then Eclipses of Sun or Moon, nothing is more natural. Yet with what superstition they have been beheld since the Tragedy of Nicosa and his Army, many examples declare.

True it is , and we will not deny, that although these being natural productions from second and settled causes, we need not alway look upon them as the immediate hand of God, or of his ministring Spirits; yet do they sometimes admit a respect therein; and even in their naturals, the indifferency of their existencies contemporised unto our actions.

admits a farther confideration.

That two or three Suns or Moons appear in any mans life or reign, it is not worth the wonder. But that the fame should fall out at a remarkable time, or point of some decisive action; that the contingency of the appearance should be confirmed unto that time; that those two should make but one line in the Book of Fate, and stand together in the great Ephemerides of God; beside the Philosophical assignment of the cause, it may admit a Christian apprehension in the signality.

But above all he deceiveth us, when we ascribe the effects of things unto evident and seeming causalities, which arise from the secret and undiscerned action of himself. Thus hath he deluded many Nations in his Augurial and Extispicious inventions, from casual and uncontrived contingen-

cies divining events succeeding. Which Tuscan superstition seizing upon Rome, hath since possessed all Europe. When Angustus found two galls in his sacrifice, the credulity of the City concluded a hope of peace with Anthony; and the conjunction of persons in choler with each other. Because Brutus and Cassius met a Blackmore, and Pompey had on a dark or sad coloured garment at Pharsalia; these were presages of their overthrow. Which notwithstanding are scarce Rhetorical sequels; concluding Metaphors from realities, and from conceptions

metaphorical inferring realities again.

Now these divinations concerning events, being in his power to force, contrive, prevent, or further, they must generally sall out conformably unto his predictions. When Graceus was slain, the same day the Chickens resuled to come out of the Coop: and Claudus Pulcher underwent the like success, when he contemned the Tripudiary Augurations: They died not because the Pullets would not feed: but because the Devil foresaw their death, he contrived that abstinence in them. So was there no natural dependence of the event. An unexpected way of delusion, and whereby he more easily led away the incircumspection of their belief. Which fallacy he might excellently have acted before the death of Saul; for that being within his power to foretell, was not beyond his ability to foreshew: and might have contrived signs thereof through all the creatures, which visibly confirmed by the event, had proved authentick unto those times, and advanced the Art ever after.

The danger and delution that is in cures by Charms, Amulets, Ligatures, Chasacters, &c.

He deludeth us also by Philters, Ligatures, Charms, ungrounded Amulets, Characters, and many superstitious ways in the cure of common diseases: seconding herein the expectation of men with events of his Which while some unwilling to fall directly upon own contriving. Magick, impute unto the power of imagination, or the efficacy of hidden causes, he obtains a bloody advantage: for thereby he begets not only a falle opinion, but such as leadeth the open way of destruction. In maladies admitting natural reliefs, making men rely on remedies, neither of real operation in themselves, nor more then seeming efficacy in his concurrence. Which whenfoever he pleafeth to withdraw, they thand naked unto the milchief of their discases; and revenge the contempt of the medicines of the Earth which God hath created for them. And therefore when neither miracle is expected, nor connection of cause unto estect from natural grounds concluded; however it besometime successful, it cannot be safe to rely on such practises, and desert the known and authentick provisions of God. In which rank of remedies, if nothing in our knowledge or their proper power be able to relieve us, we must with patience submit unto that restraint, and expect the will of the Restrainer.

Now in these effects although he seems oft-times to imitate, yet doth he concur unto their productions in a different way from that spi-

rit which sometime in natural means produceth effects above Nature. For whether he worketh by causes which have relation or none unto the effect, he maketh it out by secret and undiscerned ways of Nature. So when Caise the blind, in the reign of Antoninus, was commanded to pals from the right side of the Altar unto the left, to lay five fingers of one hand thereon and five of the other upon his eys; although the cure succeeded and all the people wondered, there was not any thing in the action which did produce it, nor any thing in his power that could enable it thereunto. So for the fame infirmity, when Aper was counselled by him to make a Collyrium or ocular medicine with the blood of a white Cock and Honey, and apply it to his eyes for three days: When Julian for his spitting of blood, was cured by Honey and Pine nuts taken from his Altar: When Lucius for the pain in his side, applied thereto the after from his Altar with wine; although the remedice were somewhat rational, and not without a natural vertue unto such intentions, yet need we not believe that by their proper faculties they

produced these effects.

But the effects of powers Divine flow from another operation; who either proceeding by visible means or not, unto visible effects, is able to conjoin them by his co-operation. And therefore those sensible ways which feem of indifferent natures, are not idle ceremonies, but may be causes by his command, and arise unto productions beyond their regular activities. If Nahaman the Syrian had washed in Fordan without the command of the Prophet, I believe he had been cleanfed by them no more then by the waters of Damascus. I doubt if any beside Elisha had cast in Salt, the waters of Jericho had not been made wholsome. I know that a decoction of wild gourd or Colocynthis (though somewhat qualified) will not from every hand be dulcified unto aliment by an addition of flower or meal. There was some natural vertue in the Plaister of figs applied unto Ezechias; we find that gall is very mundificative, and was a proper medicine to clear the eyes of Tobit: which carrying in themselves some action of their own, they were additionally promoted by that power, which can extend their natures unto the production of effects beyond their created efficiencies. And thus may he operate also from causes of no power unto their visible effects; for he that hath determined their actions unto certain effects, hath not fo emptied his own, but that he can make them effectual unto any other.

Again, Although his delusions run highest in points of practice, whose errors draw on offensive or penal enormities, yet doth he also deal in points of speculation, and things whose knowledge terminates in themselves. Whose cognition although it seems indifferent, and therefore its aberration directly to condemn no man; yet doth he hereby preparatively dispose us unto errors, and deductively deject us into

destructive conclusions.

That the Sun, Moon, and Stars are living creatures, endued with foul and life, feems an innocent Error, and an harmless digression from truth; yet hereby he confirmed their Idolatry, and made it more plausibly embraced. For wisely mistrusting that reasonable spirits would never firmly be lost in the adorement of things inanimate, and in the lowest form of Nature; he begat an opinion that they were living creatures, and could not decay for ever.

That spirits are corporeal, seems at first view a conceit derogative unto himself, and such as he should rather labour to overthrow; yet hereby he establisheth the Doctrine of Lustrations, Amulets and Charms,

as we have declared before.

That there are two principles of all things, one good, and another evil; from the one proceeding vertue, love, light, and unity; from the other, division, discord, darkness, and deformity, was the speculation of Pythagoras, Empedocles, and many ancient Philosophers, and was no more then Oromasdes and Arimanius of Zoroaster. Yet hereby he obtained the advantage of Adoration, and as the terrible principle became more dreadful then his Maker; and therefore not willing to let it fall, he furthered the conceit in succeeding Ages, and raised the faction of Manes to maintain it.

That the feminine sex have no generative emission, aftording no seminal Principles of conception; was Aristotles Opinion of old, maintained still by some, and will be countenanced by him forever. For hereby he disparageth the fruit of the Virgin, frustrateth the fundamental Prophesie, nor can the seed of the Woman then break the head of the

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Serpent.

Nor doth he only sport in speculative Errors, which are of consequent impieties; but the unquietness of his malice hunts after simple lapfes, and fuch whose falsities do only condemn our understandings. Thus if Xenophanes will fay there is another world in the Moon; If Heraclitus with his adherents will hold the Sun is no bigger then it appeareth; If Anaxagoras affirm that Snow is black; If any other opinion there are no Antipodes, or that Stars do fall, he shall not want herein the applause or advocacy of Satan. For maligning the tranquility of truth, he delighteth to trouble its streams; and being a professed enemy unto God (who is truth it felf) he promoteth any Error as derogatory to his nature; and revengeth himself in every deformity from truth. If therefore at any time he speak or practise truth, it is upon defign, and a subtile invertion of the precept of God, to do good that evil may come of it. And therefore sometime we meet with wholfome doctrines from Hell; Wosce teipsum, the Motto of Delphos, was a good precept in morality: That a just man is beloved of the gods, an uncontrolable verity. 'Twas a good deed, though not well done, which he wrought by Vespasian, when by the touch of his foot he restored a

lame man, and by the stroak of his hand another that was blind, but the intention hereof drived at his own advantage; for hereby he not only confirmed the opinion of his power with the people, but his integrity with Princes; in whose power he knew it lay to overthrow his

Oracles, and silence the practice of his delusions.

But of fuch a diffused nature, and so large is the Empire of Truth, that it hath place within the walls of Hell, and the Devils themselves are daily forced to practife it; not onely as being true themselves in a Metaphyfical verity, that is, as having their effence conformable unto the Intellect of their Maker, but making use of Moral and Logical verities; that is, whether in the conformity of words unto things, or things unto their own conceptions, they practife truth in common among themselves. For although without speech they intuitively conceive How spinis each other, yet do their apprehensions proceed through realities; and they understand conceive each other by species, which earry the true and proper notions one another. of things conceived. And so also in Moral verities, although they deceive us, they lie unto each other; as well understanding that all community is continued by Truth, and that of Hell cannot confift without it.

To come yet nearer the point, and draw into a sharper angle: They do not only speak and practife truth; but may be said well-wishers hereunto, and in some sense do really desire its enlargement. For many things which in themselves are falle, they do desire were true; He cannot but wish he were as he professeth, that he had the knowledge of tuture events; were it in his power, the Jews should be in the right, and the Messias yet to come. Could his desires effect it, the opinion of Aristotle should be true, the world should have no end, but be as immortal as himself. For thereby he might evade the accomplishment of those afflictions, he now but gradually endureth; for comparatively unto those flames, he is but yet in Balneo, then begins his lonis Rote, and terrible fire, which will determine his disputed subtilty, and even hazard his immortality.

But to speak strictly, he is in these wishes no promoter of verity, but if considered some ways injurious unto truth; for (besides that if things were true, which now are falle, it were but an exchange of their natures, and things must then be false, which now are true) the settled and determined order of the world would be perverted, and that course of things disturbed, which seemed best unto the immutable contriver. For whilest they murmur against the present disposure of things, regulating determined realities unto their private optations, they rest not in their established natures; but unwishing their unalterable verities,. do tacitely defire in them a difformity from the primitive Rule, and the Idea of that mind that formed all things best. And thus he offended truth even in his first at- How the Detempt; For not content with his created nature, and thinking it too low, wils fell, to be the highest creature of God, he offended the Ordainer, not only

in the attempt, but in the wish and simple volition thereof.

THE SECOND BOOK:

of sundry popular Tenets concerning Mineral, and vegetable bedies, generally held for truth; which examined, prove either false, or dubious.

CHAP. I.

of Crystal.



Ereof the common Opinion hath been, and still remaineth amongstus, that Crystal is nothing else but Ice or Snow concreted, and by duration of time, congealed beyond liquation. Of which affertion, if prescription of time, and numerosity of Affertors, were a sufficient demonstration, we might sit down herein, as an unque-

ftionable truth; nor should there need ulterior disquisition. For sew Opinions there are which have found so many friends, or been so popularly received, through all Professions and Ages. Pliny is positive in this Opinion: Crystalius sit gelu vehementius concreto: the same is solowed by Seneca, Elegantly described by Claudian, not denied by Sealiger, some way affirmed by Albertus, Brasavolus, and directly by many others. The venerable Fathers of the Church have also affented hereto; As Basilin his Hexameron, Isidore in his Etymologies, and not only Austin a Latine Father, but Gregory the Great, and Jerome upon occasion of that term expressed in the first of Ezekiel.

All which notwithstanding, upon a strict enquiry, we find the matter controvertible, and with much more reason denied then is as yet affirmed. For thoughmany have passed it over with easie affirmatives, yet are there also many Authors that deny it, and the exactest Mineralogists have rejected it. Diodorus in his eleventh Book denieth it, (if Crystal be there taken in its proper acception, as Rhodiginus hath used it, and

That Crystal is not lee or Snow congraled. not for a Diamond, as Salmasius hath expounded it) for in that place he affirmeth; Crystallum esse lapidem ex aqua pura concretum, non tamen frigore sed divini caloris vi. Solinus who transcribed Pliny, and therefore in almost all subscribed unto him, hath in this point difference from him. Putant quidam glaciem coire, & in Crystalium corporari, sed frustra. Mathiolus in his Comment upon Dioscorides, hath with considence rejected it. The same hath been performed by Agricola de natura sossilium; by Cardan, Butius de Boot, Casius Bernardus, Sennertus, and many more.

Now besides Authority against it, there may be many reasons deduced from their feveral differences which feem to overthrow it. And first, a difference is probable in their concretion. For if Crystal be a stone (as in the number thereof it is confessedly received,) it is not immediately concreted by the efficacy of cold, but rather by a Mineral spirit, and lapidifical principles of its own, and therefore while it lay in folius principiis, and remained in a fluid Body, it was a subject very unapt for proper conglaciation; for Mineral spirits do generally resist and scarce Submit thereto. So we observe that many waters and springs will never freez, and many parts in Rivers and Lakes, where there are Mineral eruptions, will still perfift without congelations, as we also observe in Aqua fortis, or any Mineral Solution, either of Vitriol, Alum, Salt-petre, Ammoniac, or Tartar, which although to some degree exhaled, and placed in cold Conservatories, will Crystallize and shoot into white and glacious bodies; yet is not this a congelation primarily effected by cold, but an intrinfecal induration from themselves; and a retreat into their proper folidities, which were absorbed by the liquor, and lost in a full imbibition thereof before. And so also when wood and many other bodies do putrifie, either by the Sea, other waters, or earths abounding in fuch spirits; we do not usually ascribe their induration to cold, but rather unto falinous spirits, concretive juices, and eauses circumjacent, which do affimilate all bodies not indisposed for their impressions.

But Ice is water congealed by the frigidity of the arr, whereby it acquireth no new form, but rather a confiltence or determination of its diffluency, and amitteth not its effence, but condition of fluidity. Neither doth there any thing properly conglaciate but water, or watery humidity; for the determination of quick-filver is properly fixation, that of milk coagulation, and that of oyl and unctious bodies, only incraffation; And therefore Ariffollo makes a trial of the fertility of humane feed, from the experiment of congelation; for that (faith he) which is not watery and improlifical will not conglaciate; which perhaps must not be taken strictly, but in the germ and spirited particles: for Eggs I obferve will freez, in the albuginous part thereof. And upon this ground Paracelsus in his Archidoxis, extracteth the magistery of wine; after four moneths digestion in horse-dung, exposing it unto the extremity of cold; whereby the aqueous parts will freez, but the Spirit retire and befound congealed in the Center.

of the year.

But whether this congelation be simply made by cold, or also by co. operation of any nitrous coagulum, or spirit of Salt the principle of concretion; whereby we observe that ice may be made with Salt and Snow by the fire file; as is also observable from Ice made by Saltpetre and water, duly mixed and strongly agitated at any time of the year, Ice at any time were a very considerable enquiry. For thereby we might clear the generation of Snow, Hail, and hoary Frosts, the piercing qualities of some winds, the coldness of Caverns, and some Cells. We might more fenfibly conceive how Salt-petre fixeth the flying spirits of Minerals in Chymical Preparations, and how by this congealing quality it becomes an useful medicine in Fevers.

> Again, The difference of their concretion is collectible from their disfolution; which being many ways performable in Ice, is few ways effected in Crystal. Now the causes of liquation are contrary to those of concretion; and as the Atoms and indivisible parcels are united, so are they in an opposite way disjoyned. That which is concreted by exficcation or expression of humidity, will be resolved by humectation, as Earth, Dirt, and Clay; that which is coagulated by a fiery ficcity, will suffer colliquation from an aqueous humidity, as Salt and Sugar, which are easily dissoluble in water, but not without difficulty in oyl, and well rectified spirits of Wine. That which is concreted by cold, will dissolve by a moist heat, if it consist of watery parts, as Gums, Arabick, Tragacanth, Ammoniac and others; in an airy heat or oyl, as all refinous bodies, Turpentine, Pitch, and Frankincense; in both, as gummy refinous bodies, Mastick, Campbire and Storax; in neither, as neutrals and bodies anomalous hereto, as Bdellium, Myrrhe, and Some by a violent dry heat, as Metals; which although corrodible by waters, yet will they not fuffer a liquation from the powerfullest heat, communicable unto that element. Some will dissolve by this heat although their ingredients be earthy, as Glass, whose materials are fine Sand, and the ashes of Chali or Fearn; and so will Salt run with hire, although it be concreted by heat. And this way may be effected a liquation in Crystal, but not without some difficulty; that is, calcination or reducing it by Artinto a fubtle powder; by which way and a vitreous commixture, Glasses are sometime made hereof, and is becomes the chiefest ground for artificial and factitious gemms. But the same way of folution is common also unto many Stones; and not onely Berylsand Cornelians, but Flints and Pebbles, are subject unto susion, and will run like Glass in fire.

The original ingredients of Glafs.

> But Ice will dissolve in any way of heat, for it will dissolve with fire, it will colliquate in water, or warm oyl; nor doth it only submit unto an actual heat, but not endure the potential calidity of many waters. For it will presently dissolve in cold Aqua fortis, sp. of Vitriol, Salt, or Tartar, nor will it long continue its fixation in spirits of Wine, as may be obserwed in Ice injected therein. . Again,

Again, The concretion of Ice will not endure a dry attrition without liquation; for if it be rubbed long with a cloth, it melteth. But Crystal will calefie unto electricity, that is, a power to attract straws or light bodies, and convert the needle freely placed. Which is a declarement of very different parts, wherein we shall not inlarge, as having discoursed

concerning such bodies in the Chap. of Electricks.

They are differenced by supernatation or floating upon water; for Crystal will sink in water, as carrying in its own bulk a greater ponderoficy then the space in any water it doth occupy; and will therefore only swim in molten Metal and Quicksilver. But Ice will swim in water of what thinness soever; and though it fink in oyl, will float in spirits of Wine or Aqua vita. And therefore it may lwim in water, not only as being water it felt, and in its proper place, but perhaps as weighing somewhat less then the water it possesseth. And therefore as it will not fink unto the bottom, so will it neither float above like lighter bodies, but being near in weight, lie superficially or almost horizontally unto it. And therefore also an Ice or congelation of Salt or Sugar, although it defeend not unto the bottom, yet will it abate, and decline below the furface in thin water, but very fensibly in spirits of Wine. For Ice although it seemeth as transparent and compact as Crystal, yet is it short in either; for its atoms are not concreted into continuity, which dota diminish its translucency; it is also full of spumes and bubbles, which may abate its gravity. And therefore waters frozen in Pans, and open Glasses, after their dissolution do commonly leave a froth and spume upon them, which are caused by the airy parts diffused in the congealable mixture which uniting themselves and finding no passage at the surface, do elevate the mass, and make the liquor take up a greater place then before: as may be observed in Glasses filled with water, which being frozen, will feem to swell above the brim. So that if in this con = densation any one affirmeth there is also some rarefaction, experience may affert it.

They are distinguished in substance of parts and the accidents thereof, that is, in colour and figure; for Ice is a similary body, and homogeneous concretion, whose material is properly water, and but accidentally
exceeding the simplicity of that element. But the body of Crystal is
mixed; its ingredients many, and sensibly containeth those principles
into which mixt bodies are reduced. For beside the spirit and mercurial principle it containeth a sulphur or inflamable part, and that in no
small quantity; for besides its Electrick attraction, which is made by
a sulphureous essulphine, it will strike fire upon percussion like many
otherstones, and upon collision with Steel actively send forth its sparks,
not much inseriourly unto a slint. Now such bodies as strike fire have
sulphureous or ignitible parts within them, and those strike best,
which abound most in them. For these scintillations are not the

accention

accention of the air, upon the collision of two hard bodies, but rather the inflamable effluencies or vitrified sparks discharged from the bodies collided. For Diamonds, Marbles, Heliotropes and Agaths, though hard bodies, will not readily strike fire with a steel, much less with one another: Nor a Flint so readily with a Steel, if they both he very wet,

It containeth also a falt, and that in some plenty, which may occasiou its fragility, as is also observable in Coral. This by the Art of Chymi-

for then the sparks are sometimes quenched in their eruption.

ftry is separable, unto the operations whereof it is liable, with other concretions, as calcination, reverberation, sublimation, distillation: And in the preparation of Crystal, Paracelfus hath made a rule for that of Gemms. Briefly, it consisteth of parts so far from an Icie dissolution, that powerful menstruums are made for its emollition; whereby it may receive the tincture of Minerals, and fo refemble Gemms, as Boetins bath declared in the distillation of Urine; spirits of Wine and Turpentine; and is not only triturable, and reducible into powder, by contrition, but will subfift in a violent fire, and endure a vitrification. Whereby are testified its earthly and fixed parts. For vitrification is the last work of fire, and a fusion of the Salt and Earth, which are the fixed elements of the composition, wherein the fusible Salt draws the Earth and infusible part into one continuum, and therefore ashes will not run from whence the Salt is drawn, as bone ashes prepared for the Test of Metals. Common fusion in Metals is also made by a violent heat, acting upon the volatile and fixed, the dry and humid parts of those bodies; which notwithstanding are so united, that upon attenuation from heat, the humid parts will not fly away, but draw the fixed ones into fluor with them. Ordinary liquation in wax and oily bodies is made by a gentler heat, where the oyl and falt, the fixed and fluid principles will not easily separate. All which, whether by vitrification, susion or li-

Paracellus de Preparationi-

The Physical reaufes of liquation or melting of Mettals, &c.

refteth.

As for colour, although Crystal in his pellucid body seems to have none at all, yet in its reduction into powder; it hath a vail and shadow of blew; and in its courser pieces, is of a sadder hue then the powder of Venice glass; and this complexion it will maintain although it long endure the fire. Which not withstanding needs not move us unto wonder; for vitrified and pellucid bodies, are of a clearer complexion in their continuities, then in their powders and Atomical divisions. So Stibium or glass of Antimony, appears somewhat red in glass, but in its powder yellow; so painted glass of a fanguine red will not ascend in powder above a murrey.

quation, being forced into fluent confiftencies, do naturally regrefs into their former folidities. Whereas the melting of Ice is a fimple resolution, or return from solid to fluid parts, wherein it naturally

As for the figure of Crystal (which is very strange, and forced Pliny

to despair of resolution) it is for the most part hexagonal or six cornered; being built upon a confused matter, from whence as it were from a root angular figures arise, even as in the Amethyst and Basaltes. Which regular figuration hath made some opinion, it hath not its determination from circumscription, or as conforming unto contiguities, but rather from a seminal root, and formative principle of its own, even as we observe in several other concretions. So the stones which are sometime found in the gall of a man, are most triangular and pyramidal, although the figure of that part seems not to cooperate thereto. So the Afteria or lapis stellaris, hath on it the figure of a Star, so Lapis Judaicus. hath circular lines in length all down its body, and equidiffant, as though they had been turned by Art. So that we call a Fayrie stone, In Stone-pier, and is often found in gravel pits amongst us, being of an hemispherical and Chalkfigure, hath five double lines arising from the center of its basis, which mines. if no accretion diffract them, do commonly concur, and meet in the which feempole thereof. The figures are regular in many other stones, as in the nices decima Belemnites, Lapis Anguinus, Cornu Ammonis, and many more; as Aldrovandi. by those which have not the experience hereof may be observed in their Musai Metake figures expressed by Mineralogists. But Ice receiveth its figure accor- Rather Echiding unto the surface wherein it concreteth, or the circumambiency nometrites, as which conformeth it. So it is plain upon the surface of water, but best relemround in Hayl (which is also a glaciation,) and figured in its guttulous bling the Echidescent from the air, and so growing greater or lesser according unto commonly on the accretion or pluvious aggelation about the mother and fundamental our Seas those, Atomes thereof; which feems to be some feathery particle of Snow; although Snow it lelf be fexangular, or at least of a starry and manypointed figure.

They are also differenced in the places of their generation; for though Crystal be found in cold countries, and where Ice remaineth. long, and the air exceedeth in cold, yet is it also found in regions, where Ice is seldom seen or soon dissolved; as Pliny and Agricola relate of Cyprus, Caramania and an Island in the Red sea; It hath been: also found in the veins of Minerals, sometimes agglutinated unto Wherein the lead, sometimes in Rocks, opacous stones, and the marble face of Sculptor Octavius Duke of Parma. It hath also constant veins; as beside o- found a piece thers, that of mount Salvino about the Territory of Bergamo; from of pure Citywhence if part be taken, in no long tract of time out of the same place, stal. as from its mineral matrix, others are observed to arise. Which made Mus. Calced the learned Cerantus to conclude, Fideant hi an fit glacies, an vero cor- las. pus fossile. It is also found in the veins of Minerals, in rocks, and sometime in common earth. But as for Ice, it will not readily concrete but in the approachment of the air, as we have made trial in glasses of water, covered an inch with oyl, which will not easily freeze in hard frosts of our climate. For water commonly concreteth first in its sur-

Chap.38.

face, and so conglaciates downward; and so willit do although it be exposed in the coldest metal of lead, which well accordeth with that expression of Job. The waters are bid as with a stone, and the face of the deep is frozen. But whether water which hath been boiled or heated, doth sooner receive this congelation, as commonly is delivered, we rest in the experiment of Cabeus, who hath rejected the same in his excellent discourse of Meteors.

They have contrary qualities elemental, and uses medicinal; for Ice is cold and moist, of the quality of water; but Crystal is cold and dry, according to the condition of earth. The use of Ice is condemned by most Physicians, that of Crystal commended by many. For although Dioscorides and Galen have lest no mention thereof, yet hath Mathiolius, Agricola, and many commended it in dysenteries and fluxes; all for the increase of milk, most Chymists for the Stone, and some, as Brassavolus and Batins, as an antidote against poyson. Which occult and specifical operations are not expectable from Ice; for being but water congealed, it can never make good such qualities; nor will it reasonably admit of secret proprieties, which are the affections of forms, and compositions at distance from their elements.

What Cryftal

Having thus declared what Crystal is not, it may afford some satisfaction to manifest what it is. To deliver therefore what with the judgement of approved Authors, and best reason consisteth, It is a Mineral body in the difference of stones, and reduced by some unto that subdivision, which comprehendeth gemms, transparent and resembling Glass or Ice, made of a lentous percolation of earth, drawn from the most pure and limpid juice thereof, owing unto the coldness of the earth some concurrence or coadjuvancy, but not immediate determination and efficiency, which are wrought by the hand of its concretive spirit, the feeds of petrification and Gorgon of it felf. As fenfible Philosophers conceive of the generation of Diamonds, Iris, Berils. Not making them of frozen icecles, or from meer aqueous and glaciable substances, condensing them by frosts into solidities, vainly to be expected even from Polary congelations: but from thin and finest earths, so well contempered and resolved, that transparency is not hindred; and containing lapidifical spirits, able to make good their solidities against the oppofition and activity of outward contraries, and fo leave a fensible difference between the bonds of glaciation, which in the mountains of Ice about the Northern Seas, are easily dissolved by ordinary heat of the Sun, and between the finer legatures of petrification, whereby not only the harder concretions of Diamonds and Saphirs, but the fofter veins of Crystal remain indissolvable in scorching Territories, and the Nigro land of Congor.

And therefore I fear we commonly consider subterranities, not in contemplations sufficiently respective unto the Creation. For though

Moles have left no mention of Minerals, nor made any other description then sutes unto the apparent and visible Creation, yet is there unquestionably, a very large Classis of Creatures in the Earth, far above the condition of elementarity. And although not in a diftinct and indifputable way of vivency, or answering in all points the properties or affections of Plants, yet in inferiour and descending constitutions, they do like these contain specifical distinctions, and are determined by seminalities, that is, created and defined feeds committed unto the Earth from the beginning. Wherein although they attain not the indubitable requifites of Animation, yet have they a near affinity thereto. And though we want a proper name and expressive appellation, yet are they not to be closed up in the general name of concretions; or lightly paffed over as only Elementary and Subterraneous mixtions.

The principle and most gemmary affection is its Tralucency: as for irradiancy or sparkling which is found in many gemms, it is not discoverable in this, for it cometh short of their compactness and durity : and therefore requireth not the Emery, as the Saphir, Granate, and Topaz, but will receive impression from Steel, in a manner like the Turchois. As for its diaphanity or perspicuity, it enjoyeth that most Exact contieminently; and the reason thereof is its continuity; as having its earthy nuity of parts and falinous parts fo exactly refolved, that its body is left imporous transparency and not discreted by atomical terminatians. For, that continuity of in things, and parts is the cause of perspicuity, it is made perspicuous by two ways of why. experiment. That is, either in effecting transparency in those bodies which were not fo before, or at least far short of the additional degree: So Snow becomes transparent upon liquation, so Horns and Bodies resolvable into continued parts or gelly. The like is observable in oyled paper, wherein the interstitial divisions being continuated by the accession of oyl, it becometh more transparent, and admits the visible raves with less umbrosity. Or else the same is effected by rendring those bodies opacous, which were before pellucid and perspicuous.

So Glass which was before diaphanous, being by powder reduced into multiplicity of superficies, becomes an opacous body, and will not transmit the light. So it is in Crystal powdered, and so it is also before; for if it be made hot in a crucible, and presently projected upon water, it will grow dim, and abate its diaphanity; for the water entering the body, begets a division of parts, and a termination of Atoms uni-

ted before unto continuity.

The ground of this Opinion might be, first the conclusions of some men from experience; for as much as Crystal is found sometimes in rocks, and in some places not much unlike the stirrious or stillicidious dependencies of Ice. Which notwithstanding may happen either in places which have been forsaken or left bare by the earth, or may be petrifica ions, or Mineral

Mineral indurations, like other genms, proceeding from percolations

of the earth disposed unto such concretions.

The second and most common ground is from the name Crystallus. whereby in Greek both Ice and Crystal are expressed; which many not duly confidering, have from their community of name, conceived a community of nature; and what was ascribed unto the one, not unfitly appliable unto the other. But this is a fallacy of Æquivocation, from a fociety in name inferring an Identity in nature. By this fallacy was he deceived that drank Aqua fortis for strong water: By this are they deluded, who conceive ferma (ati which is found about the head, to be the spawn of the Whale: Or take sanouis draconis (which is the gumme of a tree,) to be the blood of a Dragon. By the same Logick we may infer, the Crystalline humour of the eye, or rather the Crystalline heaven above, to be of the substance of Crystal here below; Or that God sendeth down Crystal, because it is delivered in the vulgar tranflation, Pfal. 47. Mittit Cryftallum fuum ficut Buccellas. Which tranflation although it literally express the Septuagint; yet is there no more meant thereby, then what our translation in plain English expreffeth; that is, he cafteth forth his Ice like morfels, or what Trem:1-Agreement in lim and Junius as clearly deliver, Dejicit gelu suum sicut frusta, coram frigore ejus quis confiltet? which proper and latine expressions, had they been observed in ancient translations, elder Expositors had not been misguided by the Synonomy; nor had they afforded occasion unto Austin, the Gloss, Lyranus, and many others, to have taken up the common conceit, and spoke of this Text conformably unto the opinion rejected.

mame. 1

CHAP. II.

Concerning the Loadstone.

Of things particularly spoken thereof evidently or probably true. Of things generally believed, or particularly delivered, manifestly or probably falfe. In the first of the Magnetical vertue of the Earth, of the four motions of the flone, that is, its Verticity or Direction, its Attraction or Cottion, its Declination, its Variation, and also of its Antiquity. In the second a rejection of sundry opinions and relations thereof, Natural, Medical, Historical, Mazical.

Nd first we conceive the earth to be a Magnetical body. A Mag. How the canh netical body, we term not onely that which hath a power attra-is a Magnetictive, but that which scated in a convenient medium, naturally dispofeth it felf to one invariable and fixed fituation. And fuch a Magnetical vertue we conceive to be in the Globe of the Earth, whereby as unto its natural points and proper terms, it disposethit self unto the poles; being so framed, constituted, and ordered unto these points, that those parts which are now at the poles, would not naturally abide under the Aguator, nor Greenland remain in the place of Magellanica. And if the whole earth were violently removed, yet would it not forcgoe its primitive points, nor pitch in the East or West, but return unto its polary polition again. For thoughby compactness or gravity it may acquire the lowest place, and become the center of the universe, yet that it makes good that point, not varying at all by the accession of bodies upon, or fecession thereof from its surface, perturbing the equilibration of either Hemisphere (whereby the altitude of the stars might vary) or that it strictly maintains the North and Southern points; that neither upon the motions of the heavens, air, and winds without, large eruptions and division of parts within, its polary parts should never incline or veer unto the Equator (whereby the latitude of places should also vary) it cannot so well be salved from gravity as a Magnetical verticity. This The foundation is probably, that foundation the wisdom of the Creator hath laid unto tion of the the earth; in this fense we may more nearly apprehend, and fensibly Earths flabilimake out the expressions of holy Scripture, as Firmavit orbem terra Pfal 93. qui non commovebitur, he hath made the round world fo fure that it cannot be moved: as when it is faid by Job, Extendit Aquilonem lob 18. Super vacuo, &c. He stretcheth forth the North upon the empty place, and hangeth the earth upon nothing. And this is the most probable

bable answer unto that great question. Whereupon are the foundations of the Earth faltened, or who laid the corner stone thereof? Had they been acquainted with this principle, Anaxagoras, Socrates, and Democritus, had better made out the ground of this stability; Xenophanes had not been fain to say the Earth had no bottom; and I bales Milesins to make it fwim in water.

The magneti- . cal vertue of the Earth diffuled extra fe and commu-

Nor is the vigour of this great body included only in its felf, or circumterenced by its surface, but diffised at indeterminate distances through the air, water, and all bodies circumjacent. Exciting and impregnating Magnetical bodies within its furface or without it, and pernicated to bo. forming in a fecret and invisible way what we evidently behold effected dies adjacent. by the Loadstone. For these effluxions penetrate all bodies, and like the species of visible objects are ever ready in the medium, and lay hold on all bodies proportionate or capable of their action, those bodies likewise being of a congenerous nature, do readily receive the impressions of their motor; and if not fettered by their gravity, conform themselves to situations, wherein they best unite unto their Animator. And this will sufficiently appear from the observations that are to follow, which can no better way be made out then by this we speak of, the Magnetical vigour of the Earth. Now whether these efflusiums do five by striated Atoms and winding particles as Renatus des Cartes conceiveth; or glide by streams attracted from either Pole and Hemisphere of the Earth unto the Equator, as Sir Kenelm Digby excellently declareth, it takes not away this vertue of the Earth, but more distinctly fets down the gests and progress thereof, and are conceits of eminent use to salve Magnetical Phenomena's. And as in Astronomy those hypotheses though never so strange are best esteemed which best do salve apparencies; fo furely in Philosophy those principles (though seeming monstrous) may with advantage be embraced, which best confirm experiment, and afford the readiest reason of observation. And truly the doctrine of effluxions, their penetrating natures, their invisible by the Author paths, and insuspected effects, are very considerable; for besides this Magnetical one of the Earth, several effusions there may be from divers other bodies, which invisibly act their parts at any time, and perhaps through any medium; a part of Philosophy but yet in discovery, and will, I fear, prove the last leaf to be turned over in the Book of Nature.

Apparencies ablervarions.

The doctrine of effluxions acknowledged

> First, Therefore it is true, and confirmable by every experiment, that Steel and good Iron never excited by the Loadstone, discover in themfelves a verticity; that is, a directive or polary faculty, whereby, conveniently placed, they do septentrionate at one extream, and Australize at another. This is manifestable in long and thin plates of Steel perforated in the middle and equiliberated; or by an easier way in long wires equiponderate with untwifted Silk and foft Wax; for in this manner pendulous.

pendulous, they will conform themselves Meridionally, directing one Point to the extream unto the North, another to the South. The fame is also ma- Point to the nitest in Steel wires thrust through little sphears or globes of Cork and south. floated on the water, or in naked Needles gently let fall thereon; for fo disposed they will not rest, until they have found out the Meridian, and as near as they can lye parallel unto the Axis of the Earth: Sometimes the eye, fometimes the point Northward in divers Needles, but the fame point always in most: Conforming themselves unto the whole Earth, in the same manner as they do unto every Loadstone. For if a Needle untoucht be hanged above a Loadstone, it will convert into a parallel position thereto; for in this situation it can best receive its verticity and be excited proportionably at both extreams. Now this direction proceeds not primitively from themselves, but is derivative and contracted from the Magnetical effluctions of the Earth; which they have winded in their hammering and formation; or elfe by long continuance in one position, as we shall declare hereafter.

It is likewise true what is delivered of Irons heated in the fire, that they contract a verticity in their refrigeration; for heated red hot and cooled in the Meridian from North to South, they presently contract a polary power, andbeing possed in air or water, convert that part unto the North which respected that point in its refrigeration, so that is they had no sensible verticity before, it may be acquired by this way; or if they had any, it might be exchanged by contrary position in the cooling. For by the fire they omit not onely many drossie and scorious parts, but whatsoever they had received either from the Earth or Loadstone; and so being naked and despoiled of all verticity, the Magnetical Atomes invade their bodies with more effect and

agility. Neither is it only true what Gilbertus first observed, that Irons refrigerated North and South acquire a Directive faculty; but if they be cooled upright and perpendicularly, they will also obtain the same. That part which is cooled toward the North on this fide the Equator. converting it felf unto the North, and attracting the South point of the Needle: the other and highest extream respecting the South, and attracting the Northern, according unto Laws Magnetical: For (what must be observed) contrary Poles or faces attract each other, as the North the South; and the like decline each other, as the North the North. Now on this side of the Equator, that extream which is next the Earth is animated unto the North, and the contrary unto the South; so that in coition it applies it self quite oppositely, the coition or attraction being contrary to the Verticity or Direction. Contrary, If we, speak according unto common use, yet alike, if we conceive the vertue of, the North Pole to diffuse it self and open at the South, and the South at the North again.

Tie.

Some conceive that the figure of the Tice or Spread eagle in the root of Mands North and South, but not truly.

This polarity from refrigeration upon extremity and in defect of a Loadstone might serve to invigorate and touch a Needle any where; and this, allowing variation, is also the readiest way at any season to discover the North or South; and firely far more certain then what is affirmed of the grains and circles in trees, or the figure in the root of Fern. For if we erect a red hot wire until it cool, then hang it up with wax and untwifted Silk, where the lower end and that which cooled next the earth doth rest, that is the Northern point; and this we affirm will still Brake or Fern be true, whether it be cooled in the air or extinguished in water, oyl of Vitriol, Aqua fortu, or Quickfilver. And this is also evidenced in culinary utenfils and Irons that often feel the force of fire, as Tongs, Fireshovels, Prongs, and Andirons; all which acquire a Magnetical and polary condition, and being suspended, convert their lower extreams unto the North; with the same attracting the Southern point of the Needle. For eafter experiment, if we place a Needle touched at the foot of Tongs or Andirons, it will obvert or turn afide its lillie or North point, and conform its cuspis or South extream unto the Andiron. The like verticity though more obscurely is also contracted by Bricks and Tiles, as we have made trial in some taken out of the backs of chimneys. Now to contract this Direction, there needs not a total ignition, nor is it neceffary the Irons should be red hot all over. For if a wire be heated only at one end, according as that end is cooled upward or downward, is respectively acquires a verticity, as we have declared in wires totally candent. Nor is it absolutely requifite they should be cooled perpendicularly, or strictly lie in the Meridian; for whether they be refrigerated inclinatorily or somewhat Aguinoxially, that is toward the Eaftern or Western points; though in a lesser degree, they discover some verticity.

Nor is this onely true in Irons, but in the Loadstone it felf. For if a Loadstone be made red bot, it loseth the magnetical vigour it had before in it left, and acquires another from the Earth in its refrigeration; for that part which cooleth toward the Earth will acquire the respect of the North, and attract the Southern point or cuspis of the Needle. The experiment hereof we made in a Loadstone of a parallelogram or long feware figure; wherein onely inverting the extreams, as it came out of the fire, we altered the poles or faces thereof at plea-

It is also true what is delivered of the Direction and coition of frons,

that they contract a verticity by long and continued position: that is, not onely being placed from North to South, and lying in the Meridian, but respecting the Zenith and perpendicular unto the Center of of the Earth; as is manifest in bars of windows, casements, hinges and the like. For if we present the Needle unto their lower extreams, it wheels about and turns its Southern point unto them. The fame con-

dition

dition in long time do Bricks contract which are placed in walls, and therefore it may be a fallible way to find out the Meridian by placing the Needle on a wall; for some Bricks therein by a long and continued polition, are often magnetically enabled to diffract the polarity of the Needle. And therefore thole Irons which are faid to have been converted into Loadstones; whether they were real conversions, or onely attractive augmentations, might be much promoted by this polition : as the Iron crofs of an hundred weight upon the Church of St. John in Ariminum, or that Loadston'd Iron of Cafar Moderatus, fet down by Deminer. 1. 1.

Aldrovandus.

Lastly, Irons do manifest a verticity not only upon tefrigeration and constant situation, but (what is wonderful and advanceth the magnetical Hypothesis) they evidence the same by meer position according as they are inverted, and their extreams disposed respectively unto the Earth. For if an Iron or Steel not firmly excited, be held perpendicularly or inclinatorily unto the Needle, the lower end thereof will attract the cuspis or Southern point; but if the same extream be inverted and held under the Needle, it will then attract the lilly or Northern point; for by inversion it changeth its direction acquired before, and receiveth a new and Southern polarity from the Earth, as being the upper extream. Now if an Iron be touched before, it varieth not in this manner; for then it admits not this magnetical impression, as being already informed by the Loadstone, and polarily determined by its preaction.

And from these grounds may we best determine why the Northern Pole of the Loadstone attracteth a greater weight then the Southern on this fide the Æquator; why the stone is best preserved in a natural and polary fituation; and why as Gilbertus observeth, it respecteth that Pole out of the Earth, which it regarded in its Mineral bed and subterrane-

ous position.

It is likewise true and wonderful what is delivered of the Inclination or Declination of the Loadstone; that is, the descent of the Needle below the plain of the Horizon. For long Needles which stond before upon their axis, parallel unto the Horizon, being vigoroully excited, incline and bend downward, depressing the North extream below the Horizon. That is the North on this; the South on the other fide of the Equator: and at the very Line or middle circle stand without deflexion. And this is evidenced not onely from observations of the Needle in several parts of the earth, but fundry experiments in any part thereof, as in along Steel wire, equilibrated or evenly ballanced in the air; for excited by a vigorous Loadstone it will somewhat depress its animated extream, and intersect the horizontal circumference. It is also manifest in a Needle pierced through a Globe of Cork fo cut away and pared by degrees, that it will swim under water, yet fink not unto the bottom, which may be well effected; for if the Cork be a thought too light to fink under

the .-

the surface, the body of the water may be attenuated with spirits of wine; if too heavy, it may be incraffated with falt; and if by chance too much be added, it may again be thinned by a proportionable addition of tresh water. If then the Needle be taken out, actively touched and put in again, it will depress and bow down its Northern head toward the bottom, and advance its Southern extremity toward the brim. This way invented by Gilbertus may feem of difficulty; the fame with less labour may be observed in a needled sphere of Cork equally contiguous unto the surface of the water; for if the Needle be not exactly equiponderant, that end which is a thought too light, if touched becometh even; that Needle also which will but just swim under the water, if forcibly touched will fink deeper, and sometime unto the bottom. If likewife that inclinatory vertue be destroyed by a touch from the contrary Pole, that end which before was elevated will then decline, and this perhaps might be observed in some scales exactly ballanced, and in fuch Needles which for their bulk can hardly be supported by the water. For if they be powerfully excited and equally let fall, they commonly fink down and break the water at that extream whereat they were septentrionally excited: and by this way it is conceived there may be some fraud in the weighing of precious commodities, and fuch as carry a value in quarter-grains; by placing a powerful Loadstone above or below, according as we intend to deprefe or elevate one extream.

Now if these Magnetical emissions be onely qualities, and the gravity of bodies incline them onely unto the earth; furely that which alone moveth other bodies to descent, carrieth not the stroak in this, but rather the Magnetical alliciency of the Earth; unto which with alacrity it applieth it felf, and in the very same way unto the whole Earth, as it doth unto a fingle Loadstone. For if an untouched Needle be at a distance suspended over a Loadstone, it will not hang parallel, but decline at the North extream, and at that part will first falute its Director. Again, what is also wonderful, this inclination is not invariable; for just under the line the Needle lieth parallel with the Horizon, but failing North or South it beginneth to incline, and encreaseth according as it approacheth unto either Pole; and would at last endeavour to erect it felf. this is no more then what it doth upon the Loadstone, and that more plainly upon the Terella or Ipherical magnet Cosmographically set out with circles of the Globe. For at the Equator thereof, the Needle will fland rectangularly; but approaching Northward toward the Tropick it will regard the stone obliquely, and when it attaineth the Pole, directly; and if its bulk be no impediment, erect it felf and stand perpendicularly thereon. And therefore upon strict observation of this inclination in feveral latitudes and due records preferved, instruments are made whereby without the help of Sun or Star, the latitude of the place may be discovered; and yet it appears the observations of men have have not as yet been so just and equal as is desireable; for of those Tables of declination which I have perused, there are not any two that punctually agree; though fome have been thought exactly calculated, especially that which Ridley received from Mr. Brigs, in our time Geo-

metry Professor in Oxford.

It is also probable what is delivered concerning the variation of the Compass that is the cause and ground thereof, for the manner as being confirmed by observation we shall not at all dispute. The variation what the val of the Compass is an Arch of the Horizon intercepted between the riation of the true and Magnetical Meridian; or more plainly, a deflexion and fiding Compais is, The true Meridian is a major East and West from the true Meridian Circle paffing through the Poles of the World, and the Zenith or Vertex of any place, exactly dividing the East from the West. Now on this line the Needle exactly lieth not, but diverts and varieth its point, that is, the North point on this fide the Equator, the South on the other; fometimes on the East, sometime toward the West, and in some few places varieth not at all. First, therefore it is observed that betwixt the Shore of Ireland, France, Spain, Guiny, and the Azores, the North point varieth toward the East, and that in some variety; at London it varieth eleven degrees, at Antwerp nine, at Rome but five : at some parts of the Azores it deflecteth not, but lieth in the true Meridian; on the other fide of the Azores, and this fide of the Equator, the North point of the Needle wheeleth to the West; so that in the latitude of 36 near. the shore, the variation is about cleven degrees; but on the other side. the Equator, it is quite otherwise: for about (apio Frio in Brasilia, the South point varieth twelve degrees unto the West, and about the mouth of the Straits of Magellan five or fix; but clongating from the coast of Brasilia toward the shore of Africa it varieth Eastward, and arriving at Capo de las Apullas, it resteth in the Meridian, and looketh neither way.

Now the cause of this variation was thought by Gilbertus to be the in- The cause of equality of the Earth, variously disposed, and indifferently intermixed the variation with the Sea: withal the different disposure of its Magnetical vigor in of the Comthe eminencies and stronger parts thereof. For the Needle naturally Palse endeavours to conform unto the Meridian, but being distracted, driyeth that way where the greater and powerfuller part of the Earth is placed. Which may be illustrated from what hath been delivered and may be conceived by any, that understands the generalities of Geography. For whereas on this side the Meridian, or the Isles of Azores, where the first Meridian is placed, the Needle varieth Eastward; it may be occasioned by that vast Tract of Earth, that is, of Europe, Asia, and Africa, feated toward the East, and disposing the Needle that way .- For arriving at some part of the Azores, or Islands of Saint Michael, which have a middle situation between these Continents, and that yast and almost

answerable

answerable Tract of America, it seemeth equally distracted by both ; and diverting unto neither, doth parallel and place it felf upon the true Meridian. But failing farther, it veers its Lilly to the Welt, and regardeth that quarter wherein the Land is nearer or greater; and in the fame latitude as it approacheth the shore augmenteth its variation. And therefore as some observe, if Columbus or whosoever first discovered Americe, had apprehended the cause of this variation, having passed more then half the way, he might have been confirmed in the discovery, and affuredly foretold there lay a vast and mighty continent toward the West. The reason I confess and inference is good, but the instance perhaps not fo. For Columbus knew not the variation of the compass. whereof Sebastian Cabot first took notice, who after made discovery in the Northern part of that continent. And it happened indeed that part of America was first discovered, which was on this side farthest diffant, that is, Jamaica, (uba, and the Isles in the Bay of Mexico. And from this variation do some new discoverers deduce a probability in the

attempts of the Northern passage toward the Indies.

Now because where the greater continents are joyned, the action and effluence is also greater; therefore those Needles do suffer the greatest variation which are in Countries which most do feel that action. And therefore hath Rome far less variation then London; for on the West fide of Rome are feated the great continents of France, Spain, Germany, which take off the exuperance, and in some way ballance the vigor of the Eastern parts. But unto England there is almost no Earth West, but the whole extent of Europe and Asia lieth Eastward; and therefore at London it varieth eleven degrees, that is almost one Rhomb. also by reason of the great continent of Brasilia, Peru, and Chili, the Needle deflecteth toward the Land twelve degrees; but at the straits of Magellan where the Land is narrowed, and the Sea on the other fide, it varieth but five or fix. And so likewise, because the Cape de las Agullas hath Sea on both fides near it, and other Landremote, and as it were aguidistant from it, therefore at that point the Needle conforms unto the true Meridian, and is not distracted by the vicinity of Adjacencies. This is the general and great cause of variation. But if in certain Creeks and Vallies the Needle prove irregular, and vary beyond expectation, it may be imputed unto some vigorous part of the Earth, or Magnetical eminence not far diffant. And this was the invention of D. Gilbert, not many years past, a Physician in London. And therefore although some affume the invention of its direction, and other have had the glory of the Card; yet in the experiments, grounds, and causes thereof, England produced the Father Philosopher, and discovered more in it then Columbus of Americus did ever by it.

Unto this in great part true the reason of Kircherm may be added: That this variation proceedeth not only from terrestrious eminencies,

and magnetical veins of the Earth, laterally respecting the Needle, but the different coagmentation of the Earth disposed unto the Poles, lying under the Sea and Waters, which affect the Needle with great or lesser variation, according to the vigour or imbecility of these subterraneous lines, or the entire or broken compagination of the magnetical fabrick under it. As is observable from several Loadstones placed at the bottom of any water, for a Loadstone or Needle upon the surface, will variously conform it self, according to the vigour or faintness of the Loadstones under it.

Thus also a reason may be alledged for the variation of the variation, and why, according to observation, the variation of the Needle hath after some years been found to vary in some places. For this may proceed from mutations of the earth, by subterraneous fires, sumes, mineral spirits, or otherwise; which altering the constitution of the magnetical

parts, in process of time, doth vary the variation over the place.

It is also probable what is conceived of its Antiquity, that the knowledge of its polary power and direction unto the North was unknown unto the Ancients; and though Levinus Lemnius, and Calins Colongiamus, are of another belief, is justly placed with new inventions by Pan-For their Achilles and strongest argument is an expression in Plantus, a very ancient Author, and contemporary unto Ennius. His ventus jam secundus est, cape modo versoriam. Now this versoriam they constructo be the compass, which notwithstanding according unto Pineda, who hath discussed the point, Turnebus, Cabens, and divers others, is better interpreted the rope that helps to turn the Ship, or as we fay, doth make it tack about; the Compass declaring rather the Ship is turned, then conferring unto its conversion. As for the long expeditions and fundry voyages of elder times, which might confirm the Antiquity of this invention, it is not improbable they were performed by the help of Stars; and fo might the Phoenicean navigators, and also Whifes fail about the Mediterranean. By the flight of Birds, or keeping near the shore; and so might Hanno coast about Africa; or by the help of Oars, as is expressed in the voyage of Jonah. And whereas it is contended that this verticity was not unknown unto Solomon; in whom is prefumed an universality of knowledge; it will as forcibly follow, he knew the Art of Typography, Powder and Guns, or had the Philosophers Stone, yet sent unto Opbir for Gold. It is not to be denied, that belide his Political wildom, his knowledge in Philosophy was very large; and perhaps from his Works therein, the ancient Philosophers, especially Aristotle, who had the affiftance of Alexanders acquirements, collected great observables. Yet if he knew the use of the Compais, his Ships were furely very flow, that made a three years voyage from Eziongeber in the red Sea unto Ophir; which is supposed to be Taprobana or Malaca in the Indies, not many moneths fail; and fince in the same or

or lesser time, Drake and Candish performed their voyage about the Earth.

And as the knowledge of its verticity is not so old as some conceive, so is it more ancient then most believe; nor had its discovery with Guns, Printing, or as many think, some years before the discovery of America. For it was not unknown unto Petrus Peregrinus a Frenchman, who two hundred years since left a Tract of the Mignet, and a perpetual motion to be made thereby, preserved by Gasserus. Paulus Venetus, and about five hundred years past Albertus Magnus make mention hereof, and quote for it a Book of Aristosle, De Lapide; which Book although we find in the Catalogue of Laertius, yet with Cabeus we may rather judge it to be the work of some Arabick Writer, not many years before the

days of Albertus.

Lastly, It is likewise true what some have delivered of Crocus Martin, that is, Steel corroded with Vinegar, Sulphur, or otherwise, and after reverberated by sire. For the Loadstone will not at all attract it, nor will it adhere, but lye therein like Sand. This to be understood of Crocus Martin well reverberated, and into a violet colour: for common chalybs praparatus, or corroded and powdered Steel, the Loadstone attracts like ordinary filings of Iron; and many times most of that which passets his cordinary filings of Iron; and many times most of that which passets for Crocus Martin. So that this way may serve as a test of its preparation; after which it becometh a very good medicine in fluxes. The like may be affirmed of flakes of Iron that are rusty and begin to tend unto Earth; for their cognation then expireth, and the Loadstone

will not regard them.

And therefore this may serve as a trial of good Steel. The Loadstone taking up a greater mass of that which is most pure, it may also decide the conversion of Wood into Iron, as is pretended from some Waters: and the common conversion of Iron into Copper by the mediation of blew Coperose, for the Loadstone will not attract it. Although it may be questioned, whether in this operation, the Iron or Coperose be transmitted, as may be doubted from the cognation of Coperose with Copper; and the quantity of Iron remaining after the conversion. And the same may be useful to some discovery concerning Vitriol or Coperose of Mars, by some called Salt of Steel, made by the spirits of Vitriol or Sulphur. For the corroded powder of Steel will after ablution be actively attracted by the Loadstone, and also remaineth in little diminished quantity. And therefore whether those shooting Salts partake but little of Steel, and be not rather the vitriolous spirits fixed into Salt by the efflusium or odor of Steel, is not without good question.

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CHAP. III.

Concerning the Loadstone, therein of fundry common Opinions, and received several relations: Natural, Historical, Medical, Magical.

Nd first not only a simple Heterodox, but a very hard Paradox, it will feem, and of great absurdity unto obstinate cars, if we say, attraction is unjustly appropriated unto the Loadstone, and that perhaps we speak not properly, when we say vulgarly and appropriately the Loadstone draweth Iron; and yet herein we should not want experiment and great Authority. The words of Renatus des Cartes in his Principles of Philosophy are very plain. Praterea magnes trabet ferrum, five potius magnes & ferrum ad invicem accedunt, neque enim ulia ibi tractio eft, The same is solemnly determined by Cabens. Nec magnes trabit propries ferrum, nec ferrum ad se magnetem provocat, sed ambo pari conatu ad invicem confluent. Concordant hereto is the affertion of Doctor Ridley Physician unto the Emperour of Russia, in his Tract of Magnetical Bodies, defining Magnetical attraction to be a natural incitation and disposition conforming unto contiguity, an union of one Magnetical Body with another, and no violent haling of the weak unto the stronger. And this is also the Doctrine of Gilbertus, by whom this motion is termed Coition, and that not made by any faculty attractive of one, but a Syndrome and concourse of each; a Coitionalway of their vigours, and also of their bodies, if bulk or impediment prevent not. And therefore those contrary actions which flow from opposite Poles or Faces, are not so properly expulsion and attraction, as Sequela and Fuga, a mutual flight and following. Confonant whereto are also the determinations of Helmontous, Kircherus, and Licetus.

The same is also confirmed by experiment; for if a piece of Iron be Attraction refastened in the side of a bowl or bason of water, a Loadstone swimming ciprocal befreely in a Boot of Cork, will presently make unto it. So if a Steel or twist the Knife untouched, be offered toward the Needle that is touched, the Nee- Loadstone and dle nimbly moveth toward it, and conformeth unto union with the Steel that moveth not. Again, If a Loadstone be finely filed, the Atoms or dust thereof will adhere unto Iron that was never touched, even as the powder of Iron doth also unto the Loadstone. And lastly, if in two Skifts of Cork, a Loadstone and Steel be placed within the Orb of their activities, the one doth not move the other standing still, but both hoise fail and steer unto each other. So that if the Loadstone attract, the Steel hathalfo its attraction; for in this action the Alliciency is reciprocal, which joyntly felt, they mutually approach and run into each others

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And therefore surely more moderate expressions become this action, then what the Ancients have used; which some have delivered in the most violent terms of their language; so Austin calls it, Mirabilem ferri raptorem: Hippocrates, Ais and a miles use the term in qui ferrum rapit. Galen disputing against Epicurus useth the term in but this also is too violent: among the Ancients Aristotle spake most warily, Ais and in some tolerable acception do run the expressions of Aquina, Scaliger and Cusanus.

Many relations are made, and great expectations are raised from the Magnes Carness, or a Loadstone, that hath a faculty to attract not only iron but flesh; but this upon enquiry, and as Cabess also observed, is nothing else but a weak and inanimate kind of Loadstone, veined here and there with a few magnetial and ferreous lines; but consisting of abolary and clammy substance, whereby it adheres like Hematites, or Terra Lemnia, unto the Lips. And this is that stone which is to be understood, when Physicians joyn it with Etites, or the Eagle stone, and promise there-

in a vertue against abortion.

There is fometime a mistake concerning the variation of the Compass, and therein one point is taken for another. For beyond the Equator some men account its variation by the diversion of the Northern point, whereas beyond that Circle the Southern point is Soveraign, and the North submits his preheminency. For in the Southern coast either of America or Africa; the Southern point destects and varieth toward the Land, as being disposed and spirited that way by the Meridional and proper Hemisphere. And therefore on that side of the Earth the varying point is best accounted by the South. And therefore also the writings of some, and Maps of others, are to be enquired, that make the Needle decline unto the East twelve degrees at Capo Frio, and six at the straits of Magellan; accounting hereby one point for another, and preferring the North in the Liberties and Province of the South.

That Garlick hinders not the attraction of the Loadiftone.

But certainly false it is what is commonly affirmed and believed, that Garlick doth hinder the attraction of the Loadstone, which is not-withstanding delivered by grave and worthy Writers, by Pliny, Solium, Ptolomy, Plutarch, Albertus, Mathiolus, Rueus, Langius, and many more. An estect as strange as that of Homers Moly, and the Garlick that Mercury bestowed upon Ulyses. But that it is evidently false, many experiments declare. For an Iron wire heated red hot and quenched in the juice of Garlick, doth notwithstanding contract a verticity from the Earth, and attracteth the Southern point of the Needle. If also the tooth of a Loadstone be covered or stuck in Garlick, it will notwithstanding attract; and Needles excited and fixed in Garlick until they begin to rust, do yet retain their attractive and polary respects.

Of the same stamp is that which is obtruded upon us by Authors Nor yet the ancient and modern, that an Adamant or Diamond prevents or suspends Adamant of Diamond. the attraction of the Loadstone: as is in open terms delivered by Pliny. Adamas dissidet cum Magnete lapide, ut juxta positus ferrum non patiatur abstrahi, aut fi admotus magnes apprehenderit, rapiat atque anserat. For if a Diamond be placed between a Needle and a Loadstone, there will nevertheless ensue a Coition even over the body of the Diamond. And an easie matter it is to touch or excite a Needle through a Diamond, by placing it at the tooth of a Loadstone; and therefore the relation is falle, or our estimation of these gemms untrue; nor are they Diamonds which

carry that name amongst us.

It is not suddenly to be received what Paracelsu affirmeth, that if a De generations Loadstone be anointed with Mercurial oyl, or onely put into Quick- "" units filver, it omitteth its attraction for ever. For we have found that Loadstones and touched Needles which have laid long time in Quickfilver have not amitted their attraction. And we also find that red hot Needles or wires extinguished in Quickfilver, do yet acquire a verticity according to the Laws of position in extinction. Of greater repugnancy unto reason is that which he delivers concerning its graduation, that heated in fire and often extinguished in oyl of Mars or Iron, it acquires an ability to extract or draw forth a nail fastened in a wall; for, as we have declared before, the vigor of the Loadstone is destroyed by fire, nor will it be re-impregnated by any other Magnete then the Earth.

Nor is it to be made out what seemeth very plausible, and formerly hath deceived us, that a Loadstone will not attract an Iron or Steel red hot. The falfity hereof discovered first by Kircherus, we can confirm by iterated experiment; very fensibly in armed Loadstones, and obscure-

ly in any other.

True it is, that belides fire some other wayes there are of its defteuction, as Age, Ruft; and what is least dreamt on, an unnatural or contrary fituation. For being impolarily adjoyned unto a more vigorous Loadstone, it will in a short time enchange its Poles, or being kept in undue position, that is, not lying on the Meridian, or else with its poles inverted, it receives in longer time impair in activity, exchange of Faces; and is more powerfully preserved by position then by the dust of Steel. But the sudden and surest way is fire; that is, fire not onely actual but potential; the one furely and fuddenly, the other flowly and imperfectly; the one changing, the other destroying the figure. For if. distilled Vinegar or Aqua fortis be poured upon the powder of Loadstone, the subsiding powder dryed, retains some Magnetical vertue, and will be attracted by the Loadstone : but if the menstruum or dissolvent be evaporated to a confistence, and afterward doth shoot into Icycles or Crystals, the Loadstone hath no power upon them; and if in a full dissolution of Steel a separation of parts be made by precipitation or exhalation,

halation, the exficcated powder hath lost its wings and ascends not unto the Loadstone. And though a Loadstone fired doth presently omit its proper vertue, and according to the position in cooling contracts a new verticity from the Earth; yet if the same be laid awhile in aqua fortis or other corrosive water, and taken out before a considerable corrosion, it still reserves its attraction, and will convert the Needle according to former polarity. And that duly preserved from violent corrosion, or the natural disease of rust, it may long conserve its vertue, beside the Magnetical vertue of the Earth, which hath lasted since the Creation, a great example we have from the observation of our learned friend Mr. Graves, in an Ægyptian Idol cutout of Loadstone, and found among the Mummies; which still retains its attraction, though probably taken out of the Mine about two thousand years ago.

In his learned Pramidographia.

It is improbable what Pliny affirmeth concerning the object of its attraction, that it attracts not only ferreous bodies, but also liquorem vitri; for in the body of Glass there is no ferreous or magnetical nature which might occasion attraction. For of the Glass we use, the purest is made of the finest sand and the ashes of Chali or Glaswort, and the courser or green fort of the ashes of Brake or other plants. True it is that in the making of Glass, it hath been an ancient practice to cast in pieces of magnet, or perhaps manganes: conceiving it carried away all ferreous and earthy parts, from the pure and running portion of Glass, which the Loadstone would not respect; and therefore if that attraction were not rather Electrical then Magnetical, it was a wondrous effect what Helmont delivereth concerning a Glass wherein the Magistery of Loadstone was prepared, which after retained an attractive quality.

But whether the Magnet attracteth more then common Iron, may be tried in other bodies. It feems to attract the Smyris or Emery in powder; It draweth the shining or glassie powder brought from the Indies, and usually implied in writing-dust. There is also in Smiths Cinders by some adhesion of Iron whereby they appear as it were glazed, sometime to be found a magnetical operation; for some thereof applied have power to move the Needle. But whether the ashes of vegetables which grow over Iron Mines contract a magnetical quality, as containing some mineral particles, which by sublimation ascend unto their Roots, and are attracted together with their nourishment; according as some affirm from the like observations upon the Mines of Silver, Quick silver,

and Gold; we must refer unto further experiment.

It is also improbable and something singular what some conceive, and Enselins Nierembergius, a learned Jesuit of Spain delivers, that the body of man is magnetical, and being placed in a Boat, the Vessel will never rest until the head respecteth the North. If this be true, the bodies of Christians do lye unnaturally in their Graves. King Cheops in his Tomb, and the Jans in their beds have fallen upon the natural position:

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who reverentially declining the situation of their Temple, nor willing to lye as that stood, do place their Beds from North to South, and delight to fleep Meridionally. This Opinion confirmed would much advance the Microcosmical conceit, and commend the Geography of Paracellas, who according to the Cardinal points of the World, divideth the body of man; and therefore working upon humane ordure, and by long preparation rendring it odiferous, he terms it Zibeta Occidentalis, Western Civet; making the face the East, but the posteriours the America or Western part of his Microcosm. The verity hereof might eafily be tried in Wales, where there are portable Boats, and made of Leather, which would convert upon the impulsion of any verticity; and feem to be the same whereof in his description of Britain Casar hath left fome mention.

Another kind of verticity, is that which Angelus doce mihi jus, alias, Anagramma-Michael Sundevogis, in a Tract De Sulphure, discovereth in Vegeta- tically. bles, from sticks let fall or depressed under water; which equally framed and permitted unto themselves, will ascend at the upper end, or that which was vertical in their vegetation; wherein notwithstanding, as yet, we have not found fatisfaction. Although perhaps too greedy of Magnalities, we are apt to make but favourable experiments concerning

welcom Truths, and fuch defired verities.

It is also wondrous strange what Laline Bisciola reporteth, that if unto ten ounces of Loadstone one of Iron be added, it encreaseth not unto eleven, but weighs ten ounces still. A relation inexcusable in a work of leifurable hours: the examination being as ready as the relation, and the Hora fubicity falfity tried as eafily as delivered. Nor is it to be omitted what is taken va. up by the Casius Bernardus a late Mineralogist, and originally confirmed by Porta, that Needles touched with a Diamond contract a verticity, even as they do with a Loadstone, which will not consist with experiment. And therefore, as Gilbertus observeth, he might be deceived, in touching such Needles with Diamonds, which had a verticity before, as we have declared most Needles to have; and so had he touched them with Gold or Silver, he might have concluded a magnetical vertue therein.

In the fame form may we place Fracastorius his attraction of silver, Philostratus his Pantarbes; Apollodorus and Beda his relation of the Loadstone that attracted onely in the night. But most inexcusable is Franciscus Rueus, a man of our own protession; who in his discourse of Gemms mentioned in the Apocalyps, undertakes a Chapter of the Loadstone. Wherein substantially and upon experiment he scarce delivereth any thing: making long enumeration of its traditional qualities, whereof he seemeth to believe many, and some above convicted by experience, he is fain to falve as impostures of the Devil. But Bætim de Boot Phyfitian unto Rodulphus the second, hath recompenced this defect; and in

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his Tract, De Lapidibus & Gemmis, speaks very materially hereof; and

his Discourse is consonant unto Experience and Reason.

As for Relations Historical, though many there be of less account, ver two alone deserve, consideration; The first concerneth magnetical Rocks, and attractive Mountains in several parts of the Earth, ther the Tomb of Mahamet and bodies suspended in the air. Of Rocks magnetical there are likewise two relations; for some are delivered to be in the Indies, and some in the extremity of the North, and about the very Pole: The Northern account is commonly ascribed unto Olam Magnus Archbishop of Upfale, who out of his Predecessor. Jeannes, Saxo, and others, compiled a Hiftory of some Northern Nations; but this affertion we have not discovered in that Work of his which commonly passeth amongst us, and should believe his Geography herein no mo more then that in the first line of his Book; when he affirmeth that Biarmia (which is not seventy degrees in latitude) hath the Pole for its

Zenith, and Equinoctial for the Horizon.

Now upon this foundation, how uncertain foever men have erected mighty illations, ascribing thereto the cause of the Needles direction, and conceiving the effluctions from these Mountains and Rocks invite the Lilly toward the North. Which conceit though countenanced by learned men, is not made out either by experience or reason, for no man hath yet attained or given a fensible account of the Pole by some degrees. It is also observed the Needle doth very much vary as it approacheth the Pole; whereas were there such direction from the Rocks, upon a nearer approachment it would more directly respect them. Beside, were there fuch magnetical Rocks under the Pole, yet being fo far removed they would produce no such effect. For they that fail by the Isle of Ilua FON called Elba in the Thuscan Sea which abounds in veins of Loadstone, observe no variation or inclination of the Needle; much less may they expect a direction from Rocks at the end of the Earth. laftly, men that afcribe thus much unto Rocks of the North, must piefume or discover the like magneticals at the South: For in the Southern Seas and far beyond the Equator, variations are large, and declinations as constant as in the Northern Ocean.

The other relation of Loadstone Mines and Rocks, in the shore of India is delivered of old by Pliny; wherein, faith he, they are so placed both in abundance and vigour, that it proves an adventure of hazard to pals those Coasts in a Ship with Iron nails. Serapion the Moor, an Author of good efteem and reasonable Antiquity, confirmeth the same, whose expression in the word magnes is this. The Mine of this Stone is in the Sea-coast of India, whereto when Ships approach, there is no Iron in them which flies not like a Bird unto those Mountains; and therefore their Ships are fastened not with Iron but Wood, for otherwise they would be torn to pieces. But this affertion, how positive

foever, is contradicted by all Navigators that pass that way; which are (Probab'y) now many, and of our own Nation, and might furely have been con- there be no troled by Nearshus the Admiral of Alexander; who not knowing the Rocks.

Compals, was fain to coast that shore.

For the relation concerning Mahomet, it is generally believed his Tomb at Medina Talnabi, in Arabia, without any visible supporters hangeth in the air between two Loadstones artificially contrived both above and below; which conceit is fabulous and evidently falle from Mahamets the testimony of Ocular Testacors, who affirm his Tomb is made of comb of stone, Stone, and lyeth upon the ground; as besides others the learned Vossius and built upon observeth from Gabriel Sionita, and Joannes Hefronita, two Maronites in the ground their relations hereof. Of fuch intentions and attempt by Mahometans we read in some Relators, and that might be the occasion of the Fable. which by tradition of time and diffance of place enlarged into the Story of being accomplished. And this hath been promoted by attempts of the like nature; for we read in Pliny that one Dinocrates began to Arch the Temple of Arsinoe in Alexandria with Loadstone, that so her Statue might be suspended in the air to the amazement of the beholders. And to lead on our crudelity herein, confirmation may be drawn from Hiftory and Writers of good authority. So is it reported by Ruffinus, that in the Temple of Serapis there was an Iron Chariot suspended by Load-Rones in the air; which stones removed, the Chariot fell and dashed into pieces. The like doth Beda report of Bellerophons Horse, which framed of Iron, was placed between two Loadstones, with wings expansed, pendulous in the air.

The verity of thele Stories we shall not further dispute, their possibility we may in some way determine; if we conceive what no man will deny, that bodies suspended in the air have this suspension from one or many Laadsones placed both above and below it; or elfe by one or many placed only above it. Likewise the body to be suspended in respect of the Loadstone above, is either placed first at a pendulous distance in the medium, or elle attracted unto that lite by the vigor of the Loadstone. And so we first affirm that possible it is a body may be suspended between two Loadstones; that is, it being fo equally attracted unto both, that it determineth it felf unto neither. But furely this position will be of no duration; for if the air be agitated or the body waved either way, it omis the equilibration, and disposeth it self unto the nearest attractor. Again, It is not impossible (though hardly feasible) by a fingle Loadstone to suspend an Iron in the sir, the Iron being artificially placed and at a diftance guided toward the stone, until it find the neutral point, wherein its gravity just equals the magnetical quality, the one exactly extolling as much as the other depreffeth. And laftly, Impossible it is that if an Iron rest upon the ground, and a Loadstone be placed over it, it should ever so arise as to hang in the way or medium; for that

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vigor which at a distance is able to overcome the resistance of its gravity and to lift up it from the Earth, will as it approacheth nearer be still more able to attract it; never remaining in the middle that could not abide in the extreams. Now the way of Baptiffaperta that by a thred fastneth a Needle to a Table, and then fo guides and orders the fame, that by the attraction of the Loadstone it abideth in the air, infringeth not this reason; for this is a violent retention, and if the thred be loofened, the Needle

The third confideration concerneth Medical relations; wherein what ever effects are delivered, they are either derived from its mineral and terreous condition, or else magnetical operation. Unto the ferreous

ascends and adheres unto the Attractor.

and mineral quality pertaineth what Dioscorides an ancient Writer and

Pewder of what opera-Tion.

Souldier under Anthony and Cleopatra affirmeth, that half a dram of Loadstone given with Honey and Water, proves a purgative medicine, and evacuateth gross humours. But this is a quality of great incertainty; Loadstones, of for omitting the vehicle of Water and Honey, which is of a laxative power it felf, the powder of some Loadstones in this dose doth rather constipate and binde, then purge and loosen the belly. And if sometimes it cause any laxity, it is probably in the same way with Iron and Steel unprepared, which will disturb some bodies, and work by Purge and Vomit. And therefore, whereas it is delivered in a Book ascribed unto Galen, that it is a good medicine in dropfies, and evacuates the waters of persons so affected: It may I confess by siccity and astriction afford a confirmation unto parts relaxed, and such as be hydropically disposed; and by these qualities it may be useful in Hernias or Ruptures. and for these it is commended by Etim, Egineta, and Oribatim; who only affirm that it contains the vertue of Hematites, and being burnt was fometimes vended for it. Wherein notwithstanding there is an higher vertue; and in the same prepared, or in rich veins thereof, though crude, we have observed the effects of Chalybeat Medicines; and the benefits of Iron and Steel in strong obstructions. And therefore that was probably a different vein of Loadstone; or infected with other mineral mixture, which the Ancients commended for a purgative medicine, and ranked the fame with the violentest kinds thereof: with Hippophae, Cneeron, and Thymelea, as we find it in Hippocrates; and might be fornewhat doubtful, whether by the magnesian stone, he understood the Loadftone; did not Achilles Stating define the same, the Stone that loveth Iron.

De merbie in. Bernie.

> To this mineral condition belongeth what is delivered by some, that wounds which are made with weapons excited by the Loadstone, contract a malignity, and become of more difficult cure; which nevertheless is not to be found in the incision of Chyrurgions with knives and lancets touched; which leave no such effect behind them. His ther we also refer that affirmative, which sayes the Loadstone is poilon

poison; and therefore in the lifts of poisons we find it in many Authors. But this our experience cannot confirm, and the practice of the King of Zoilan clearly contradicteth; who as Garcias ab Horto, Physitian unto the Spanish Viceroy delivereth, hath all his meat ferved up in duhes of Loadstone, and conceives thereby he preserveth the vigour of youth.

But furely from a magnetical activity must be made out what is let fall by Etins, that a Loadstone held in the hand of one that is podagrical, doth either cure or give great ease in the Gout. Or what Marcellus Emperious affirmeth, that as an amulet, it also cureth the headach; which are but additions unto its proper nature, and hopeful enlargements of its allowed attraction. For perceiving its fecret power to draw magnetical bodies, men have invented a new attraction, to draw out the dolour and pain of any part. And from such grounds it surely became a philter, and was conceived a medicine of some venereal attraction; and therefore upon this stone they graved the Image of Venus, according unto that of Claudian, Venerem magnetica gemma figurat. Hither must we also refer what is delivered concerning its power to draw out of the body bullets and heads of arrows, and for the like intention is mixed up in plaisters. Which course, although as vain and ineffectual it be rejected by many good Authors, yet is it not methinks so readily to be denied, nor the Practice of many Physicians which have thus compounded plaisters, thus suddenly to be condemned, as may be observed in the Emplastrum divinum Nicolai, the Emplastrum nigrum of Augspurg, the Opodeldoch and Attractium of Paracelfus, with several more in the Dispensatory of Wecker, and practice of Sennerus. The cure also of Hernias, or Ruptures in Pareus : and the method also of curation lately Be cultivi word delivered by Daniel Beckherus, and approved by the Profesors of Leyden, Prusiacons; &. that is, of a young man of Spruceland that casually swallowed a knife about ten inches long, which was cut out of his stomach, and the wound the healed up. In which cure to attract the knife to a convenient situation, the Prussian there was applied a plaister made up with the powder of Load-Knife. stone. Now this kind of practice Libavius, Gilbertus, and lately Swicker- In his Are dus condemn, as vain, and altogether unuseful; because a Loadstone Magnesica. in powder hath no attractive power; for in that form it omits his polary respects, and loseth those parts which are the rule of attraction.

Wherein to speak compendiously, if experiment hath not deceived us, we first affirm that a Loadstone in powder omits not all attraction. For if the powder of a rich vein be in a reasonable quantity presented toward the Needle freely placed, it will not appear to be void of all activity, but will be able to stir it. Nor hath it only a power to move the Needle in powder and by it felf, but this will it also do, if incorporated and mixed with plaisters; as we have made trial in the Emplastrum de Minios

truc.

with half an ounce of the mass, mixing a dram of Loadstone. For applying the magdaleon or roal unto the Needle, it would both stir and attractive; not equally in all parts, but more vigorously in some, according unto the Mine of the Stone, more plentifully dispersed in the mass. And lassly, In the Loadstone powdered, the polary respects are not wholly destroyed. For those diminutive particles are not atomical or meetly indivisible, but consist of dimensions sufficient for their operations, though in obscurer effects. Thus if unto the powder of Loadstone or Iron we admove the North Pole of the Loadstone, the Powders or small divisions will erect and conform themselves thereto: but if the South pole approach, they will subside, and inverting their bodies, respect the Loadstone with the other extream. And this will happen not only in a body of powder together, but in any particle or dust divided from it.

Now though we disayow not these plaisters, yet shall we not omit two cautions in their use, that therein the Stone be not too subtilly powdered, for it will better manifest its attraction in a more sensible dimension. That where is desired a speedy effect, it may be considered whether it were not better to relinquish the powdered plaisters, and to apply an entire Loadstone unto the part: And though the other be not wholly inessectual, whether this way be not more powerful, and so might have been in the cure of the young man delivered by Beckerus.

The last consideration concerneth Magical relations; in which account we comprehend effects derived and sathered upon hidden qualities, specifical forms, Antipathies, and Sympathies, whereof from received grounds of Art, no reasons are derived. Herein relations are strange and numerous; men being apt in all Ages to multiply wonders, and Philosophers dealing with admirable bodies, as Historians have done with excellent men, upon the strength of their great atcheivements, ascribing acts unto them not only safe but impossible; and exceeding truth as much in their relations, as they have others in their actions. Hereof we shall briefly mention some delivered by Authors of good aftern: whereby we may discover the sabulous inventions of some, the credulous supinity of others, and the great differvice unto truth by both: multiplying obscurities in Nature, and authorising hidden quality

And first, Dioscorides puts a shrewd quality upon it, and such as men are apt enough to experiment, who therewith discovers the incontinency of a wife, by placing the Loadstone under her pillow, whereupon she will not be able to remain in bed with her husband. The same he also makes a help unto thievery. For Thieves saith he, having a design upon a house, do make a fire at the four corners thereof, and cast there-

ties that are false: whereas wise men are ashamed there are so thany

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in the fragments of Loadstone: whence ariseth a sume that so disturbeth the inhabitants, that they for sake the house and leave it to the spoil of the Robbers. This relation, how ridiculous foever, hath Albertus taken up above a thousand years after, and Marbodeus the Frenchman hath continued the same in Latine Verse, which with the Notes of Pittoriss is current unto our dayes. As strange must be the Lithomancy or divination from this Stone, whereby as Tzetzes delivers, Helenus the Prophet foretold the destruction of Troy: and the Magick thereof not fafely to be believed, which was delivered by Orpheus, that sprinkled with water it will upon a question emit a voice not much unlike an Infant. But surely the Loaditone of Laurentins Guascus the Physician, is never to be matched; where with, as Cardan delivereth, what soever Needles or Bodies were touched, the wounds and punctures made thereby, were never felt at all. And yet as strange is that which is delivered by some, that a Loadstone preserved in the salt of a Remora, acquires a power to attract gold out of the deepest Wells. Certainly a studied abfurdity, not casually cast out, but ploted for perpetuity : for the strangenels of the effect ever to be admired, and the difficulty of the trial never

to be convicted.

These conceits are of that monstrosity that they refute themselves in their recitements. There is another of better notice, and whispered thorow the World with some attention; credulous and vulgar auditors readily believing it, and more judicious and distinctive heads, not altogether rejecting it. The conceit is excellent, and if the effect would follow, somewhat divine; whereby we might communicate like spirits, and confer on earth with Menippus in the Moon. And this is pretended from the sympathy of two Needles touched with the same Loadftone, and placed in the center of two Abecedary circles or rings, with letters described round about them, one friend keeping one, and another the other, and agreeing upon an hour wherein they will communicate. For then, faith Tradition, at what distance of place soever, when one Needle shall be removed unto any letter; the other by a wonderful fympathy will move unto the fame. But herein I confess my experience can find no truth; for having expresly framed two circles of Wood, and according to the number of the Latine letters divided each into twenty three parts, placing therein two stiles or Needles composed of the same steel, touched with the same-Loadstone, and at the same point : of these two, whenfoever I removed the one, although but at the diffance of half 2 span, the other would stand like Hercules pillars, and if the Earth Atland Still, have surely no motion at all. Now as it is not possible that any body should have no boundaries, or Sphear of its activity, so it is improbable it should effect that at distance, which nearer hand it cannot at all perform.

Again, The conceit is ill contrived, and one effect inferred, whereas

the contrary will enfue. For if the removing of one of the Needles from A to B, should have any action or influence on the other, it would not intice it from A to B, but repell it from A to Z: for Needles excited by the fame point of the stone, do not attract, but avoid each other, even as these also do, when their invigorated extreams approach unto one other.

Laftly, Were this conceit affuredly true, yet were it not a conclusion at every distance to be tried by every head: it being no ordinary or Almanack bufiness, but a Problem Mathematical, to finde out the difference of hours in different places; nor do the wifest exactly satisfie themselves For the hours of feveral places anticipate each other, according unto their Longitudes, which are not exactly discovered of every place; and therefore the trial hereof at a confiderable interval, is best performed at the distance of the Antaci; that is, such habitations as have the same Meridian and equal parallet, on different fides of the Æquator; or more plainly the same Longitude and the same Latitude unto the South, which we have in the North. For unto fuch fituations it is noon and midnight at the very fame time.

And therefore the Sympathy of these Needles is much of the same mould with that intelligence which is pretended from the flesh of one body transmuted by incision into another. For if by the Art of Taliacotius, a permutation of flesh, or transmutation be made from one mans body into another, as if a piece of flesh be exchanged from the bicipital muscle of either parties arm, and about them both, an Alphabet circumscribed; upon a time appointed as some conceptions affirm, they may communicate at what diffance foever. For if the one shall prick himself in A, the other at the same time will have a sense thereof in the same part: and upon inspection of his arm perceive what letters the other points out in his. Which is a way of intelligence very strange: and

would requite the lost Art of Pythagoras, who could read a reverse in

the Moon.

Now this magnetical conceit how strange soever, might have some original in Reason; for men observing no solid body, whatsoever did interrupt its action, might be induced to believe no distance would terminate the same; and most conceiving it pointed unto the Pole of Heaven, might also opinion that nothing between could restrain it. Whosoever was the Author, the Lolus that blew it about, was Famianus Strada, that Elegant Jesuit, in his Rhetorical prolusions, who chose out this subject to express the stile of Lucretius. But neither Baptifta Port .. De Furtivis Literarum notis; Trithemius in his Steganography, Selenus in Fluxe. inanim. his Cryptography, or Nuncius inanimatus make any confideration hereof, although they deliver many ways to communicate thoughts at distance. And this we will not deny may in some manner be effected by the Loadstone; that is, from one room into another; by placing a table

De enregrum Chyrurgia.

by D. Godwin Bilhop of Hereford.

in the wall common unto both, and writing thereon the same letters one against another: for upon the approach of a vigorous Loadstone unto a letter on this side, the Needle will move unto the same on the other. But this is a very different way from ours at present; and hereof there are many ways delivered, and more may be discovered which contradict

not the rule of its operations.

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As for Unquentum Armarium, called also Magneticum, it belongs not to this discourse, it neither having the Loadstone for its ingredient, nor any one of its actions: but supposeth other principles, as common and universal spirits, which convey the action of the remedy unto the part, and conjoins the vertue of bodies far disjoyned. But perhaps the cures it doth, are not worthso mighty principles; it commonly healing but simple wounds, and such as mundified and kept clean, do need no other hand then that of Nature, and the Balsam of the proper part. Unto which effect there being fields of Medicines, it may be a hazardous curiosity to rely on this; and because mensay the effect doth generally sollow, it might be worth the experiment to try, whether the same will not ensue, upon the same Method of cure, by ordinary Balsams, or common vulnerary plaisters.

Many other Magnetisms may be pretended, and the like attractions through all the creatures of Nature. Whether the same be verified in the action of the Sun upon inferiour bodies, whether there be £olian Magnets, whether the flux and reflux of the Sea be caused by any Magnetism from the Moon; whether the like be really made out, or rather Metaphorically verified in the sympathies of Plants and Animals, might afford a large dispute; and Kircherus in his Catena Magnetica hath excellently discussed the same; which work came late unto our hand.

but might have much advantaged this Discourse.

Other Discourses there might be made of the Loadstone: as Moral, Mystical, Theological; and some have handsomely done them; as Ambrose, Austine, Gulielmus Parisiensis, and many more, but these fall under no Rule, and are as boundless as mens inventions. And though honest minds do glorisie God hereby; yet do they most powerfully magnisse him, and are to be looked on with another eye, who demonstratively set forth its Magnalities; who not from postulated or precarious inforences, entreat a courteous assent; but from experiments and undeniable effects, enforce the wonder of its Maker.

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CHAP. IV.

Of Bodies Electrical.

Bodies Ele-

Aving thus spoken of the Loadstone and Bodies Magnetical, I shall in the next place deliver somewhat of Electrical, and such as may feem to have attraction like the other. Hereof we shall also deliver what particularly spoken or not generally known is manifestly or probably true, what generally believed is also false or dubious. Now by Ele-Ctrical bodies, I understand not fuch as are Metallical, mentioned by Plimy, and the Ancients; for their Electrum was a mixture made of Gold, with the Addition of a fifth part of Silver; a fubstance now as unknown as true Aurichaleum, or Corinthian Brass, and set down among things loft by Pancirollus. Nor by Electrick Bodies do I conceive fuch only as take up shavings, straws, and light bodies, in which number the Ancients only placed fee and Amber; but such as conveniently placed unto their objects attract all bodies palpable what foever. I fay conveniently placed, that is, in regard of the object, that it be not too ponderous or any way affixed; in regard of the Agent, that it be not foul or fullied, but wiped, rubbed, and excitated; in regard of both, that they be conveniently distant, and no impediment interposed. I say, all bodies palpable, thereby excluding fire, which indeed it will not attract, nor yet draw through it; for fire confumes its effluxions by which it should attract.

Now although in this rank but two were commonly mentioned by the Ancients, Gibertus discovereth many more; as Diamonds, Saphyri, Carbuncles, Iris, Opalls, Amethysts, Beril, Crystal, Bristol stones, Sulphur, Mastick, hard max, hard Rosin, Arsenic, Sal-gemm, Roch-Allum, common Glass, Stibium, or Glass of Antimony. Unto these Cabeus addeth white wax, Gum Elemi, Gum Guaici, Pix Hispanica, and Gipsum. And unto these we add 6 um Anime, Benjamin, Talcum, China-dishes, Sandaraca, Turpentine, Segrax Liquida, and Caranna dried into a hard consistence. And the same attraction we find, not onely in simple bodies, but such as are much compounded; as in the Oxycroceum plaister, and obscurely that ad Herniam, and Gratia Dei; all which smooth and rightly prepared, will discover a sufficient power to stir the Needle, settled freely upon a well-pointed pin; and so as the Electrick may be applied unto it without all disadvantage.

But the attraction of these Electricks we observe to be very different. Resinous or unctuous bodies, and such as will slame, attract most vigorously, and most thereof without frication; as Anime, Benjamin, and most powerfully good hard Wax, which will convert the Needle almost as actively as the Loadstone. And we believe that all or most

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of this substance if reduced to hardness tralucency or clearness, would have some attractive quality. But juices concrete, or Gums easily disfolving in water, draw not at all : as Aloe, Opium, Sanguis Draconis, Lucca, Calbanum, Sagapenum. Many stones also both precious and vulgar, although terfe and fmooth, have not this power attractive: as Emeralds, Pearl, Jaspis, Corneleans, Agathe, Heliotropes, Marble, Alablafter, Touchftone, Flint, and Bezoar. Gla's attracts but weakly, though clear; some flick stones and thick Glasses indifferently: Arsenic but weakly, fo likewite Glass of Antimony, but Crocus Metallorum not at all. Salts generally but weakly, as Sal Gemma, Allum, and also Talke; nor very discoverably by any frication, but if gently warmed at the fire, and wiped with a dry cloth, they will better discover their Ele-Ctricities.

No Metal attracts, nor Animal concretion we know, although polite and smooth; as we have made trial in Elks Hoofs, Hawks-Talons, the Sword of a Sword-fish, Tortois-shells, Sea-borfe, and Elephants Teeth, in Bones, in Harts-horn, and what is usually conceived Unicorns-horn. No Woodthough never fo hard and polished, although out of some thereof Electrick bodies proceed; as Ebony, Box, Lignum vita, Cedar, &c. And although fet and Amber be reckoned among Bitumens, yet neither do we find Asphaltus, that is, Bitumens of Judea, nor Sea-cole, nor Camphire, nor Mummia to attract, although we have tried in large and polished pie-Now this attraction have we tried in straws and paleous bodies, in Needles of Iron, equilibrated, Powders of Wood and Iron, in Gold and Silver foliate. And not only in folid but fluent and liquid bodies, as oyls made both by expression and distillation; in Water, in spirits of Wine, Vitriol and Aquafortie.

But how this attraction is made, is not so easily determined; that 'tisperformed by effluviums is plain, and granted by most; for Electricks will not commonly attract, except they grow hot or become perspirable. For if they be foul and obnubilated; it hinders their effluxion; nor if they be covered, though but with Linen or Sarfenet, or if a body be interpoled, for that intercepts the efflusium. If also a powerful and broad Electrick of Wax or Anime be held over fine powder, the Atoms or small particles will afcend most numerously unto it; and if the Ele-Ctrick be held unto the light, it may be observed that many thereof will fly, and be as it were discharged from the Electrick to the distance sometime of two or three inches. Which motion is performed by the breath of the offluvium issuing with agility; for as the Electrick cooleth, the projection of the Atoms ceafeth

The manner hercof Cabeus wittily attempteth, affirming that this ef- Cabeus his way fluvium attenuateth and impelleth the neighborair, which returning home in bodies Elein a gyration, carrieth with it the obvious bodies unto the Electrick. arick, And this he labours to confirm by experiments; for if the straws be

raifed by a vigourous Electrick, they do appear to wave and turn in their afcents. If likewife the Electrick be broad, and the straws light and chaffy, and held at a reasonable distance, they will not arise unto the middle, but rather adhere toward the Verge or Borders thereof. And lastly, if many straws be laid together, and a nimble Electrick approach, they will not all arise unto it, but some will commonly start aside, and be whirled a reasonable distance from it. Now that the air impelled returns unto its place in agyration or whirling, is evident from the Atoms or Motes in the Sun. For when the Sun so enters a hole or window, that by its illumination the Atoms or Motes become perceptible, if then by our breath the air be gently impelled, it may be perceived, that they will circularly teturn and in a gyration unto their places a gain.

The way of Sir Kenelm Digby.

Another way of their attraction is also delivered; that is, by a tenuous emanation or continued effl. vium, which after some distance retracteth into it felf; as is observable in drops of Syrups, Oyl, and seminal Viscosities, which soun at length, retire into their former dimentions. Now these effluriums advancing from the hody of the Electrick, in their return do carry back the bodies whereon they have laid hold within the Sphere or Circle of their continuities; and these they do not onely attract, but with their viscous arms hold fast a good while after. And if any shall wonder why these effluviums issuing forth impel and protrude not the straw before they can bring it back; it is because the offlowium passing out in a smaller thred and more enlengthened filament, it stirreth not the bodies interposed; but returning unto its original, falls into a closer substance, and carrieth them back unto it self. And this way of attraction is best received, embraced by Sir Kenelm Digby in his excellent Treaty of bodies, allowed by Des Cartes in his principles of Philosophy, as far and concerneth fat and refinous bodies, and with exception of Glass, whose attraction he also deriveth from the recess of its effluctions And this in some manner the words of Gilbertus will bear: Effluvia illa tenuiora concipiunt & amplectuntur corpora, quibus uniuntur, & electris tanquam extensis brachiis, & ad fontem propinquitate invalescentibus effluviis, deducuntur. And if the ground were true, that the Earth were an Electrick body, and the air but the effluvium thereof we might have more reason to believe that from this attraction, and by this effluction, bodies tended to the Earth, and could not remain,

Our other discourse of Electricks concerneth a general opinion touching for and Amber, that they attract all light bodies, except Ocymum or Basil, and such as be dipped in oyl or oyled, and this is urged as high as theophrastus: but Scaliger acquitteth him; And had this been his assertion, Pliny would probably have taken it up, who herein stinds

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out, and delivereth no more but what is sulgarly known. But Plutarch speaks positively in his Symposiacks, that Amben attracteth all bodies, excepting Basil and cyled substances. With Plutarch consent many Authors both Ancient and Modern; but the most inexcushed are Lemnius and Rucus, whereof the one delivering the nature of Minerals mentioned in Scripture, the infallible fountain of Truth, confirmeth their vertues with erroneous traditions; the other undertaking the occult and hidden Miracles of Nature, accepteth this for one; and endeavoureth to alledge a reason of that which is more then occult; that is, not existent.

Now herein, omitting the authority of others, as the Doctrine of experiment hath informed us, we first affirm. That Amber attracts not Bafil, is wholly repugnant unto truth. For if the leaves thereof or dried Stalks be Stripped into small straws, they arise unto Amber, wax, and other Electries, no otherwise then those of Wheat and Rye: nor isthere any peculiar fatness or fingular viscosity in that plant that might cause adhelion, and lo prevent its ascention. But that fet and Amber attract not straws oyled, is in part true and falle. For if the straws be much wet or drenched in oyl, true it is that Amber draweth them nots for then the oyl makes the straws to adhere unto the part whereon. they are placed, so that they cannot trise unto the Attractor; and this is true, not onely if they be foaked in Oyl, but wirits of Wine or Water. Ent if we speak of Straws or feltucous divisions lightly drawn over with oyl, and so that it causeth monthesion; or if we conceive an Antipathy between Oyl and Amber, the Poctrine is not truc. For Amber will attract straws thus oyled, it will convert the Needles of Dials made either of Brass or Iron, although they be, much oyled; for in these Needles consilting free upon their Centerthere can be no adhesion. It will likewise attract Out it felf, and if it approacheth unto a drop thereof, it becometh conical, and arifeth up unto it, for Oyl taketh not away his attraction, although it be rubbed over it. For if you touch a piece of Wax already excitated with common Oyl, it will notwithstanding attract, though not so vigorously as before. But if you moisten the same with any Chymical Oyl, Water, or spirits of Wine, or only breath upon it, it quite omits its attraction, for either its influencies cannot get through, or will not mingle with those substances.

It is likewise probable the Ancients were mistaken concerning its substance and generation; they conceiving it a vegetable concretion made of the gums of Trees, especially Pine and Poplar falling into the water, and after indurated or hardened, whereunto accordeth the Fable of Phaetons sisters: but surely the concretion is Mineral, according as is delivered by Bactins. For either it is found in Mountains and meditertancous parts; and so it is a fat and unctuous substantion in the Earth,

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concreted and fixed by falt and nitrous fpirits wherewith it meeteth. Of elfe, which is most usual, it is collected upon the Sea-shore; and so it is a fat and bituminous puice coagulated by the fatinels of the Sea. Now that fall spirits have a power to congeal and coagulate unctuous bodies. is evident in Chymical operations; in the diffillations of Arfenick, fub. limate and Antimony; in the mixture of oyl of Juniper, with the falt and acide spirit of sulphur, for thereupon enfueth a concretion unto the confiftence of Birdlime; as also in spirits of falt, or Aqua fortis poured upon. oyl of Olive, or more plainly in the Manufacture of Soap. And many bodies will coagulate upon commixture, whose separated natures promife no concretion. Thus upon a folution of tin by Aqua fortu, there will enfue a congulation, like that of whites of Eggs. Thus the volatile falt of Urine will congulate Ages vise, or spirits of Wine; and thus perhaps (as Helmone excellently declareth) the stones or calculous concretions in Kidney or Bladder may be produced: the spirits or volatile falt of Urine conjoyning with the Aqua vira potentially lying therein; as he iffuftrateth from the diffillation of fermented Urines From whence arifeth an Aqua vite or spirit, which the volatile falt of the same Urine will congeal; and finding an earthy concurrence, strike into a la. pideous fubstance.

How the Stone is bred in the Kidney or Bladder.

Lastly, We will not omit what Bellabonus upon his own experiment Ota Bee and a writ from Danteich unto Mellichius, as he hath left recorded in his Chapter, De faccina, that the bodies of Plies, Pifmires, and the like, which are faid oft-times to be included in Amber, are not real but reprefentative, as he discovered in feveral pieces broke for that purpose. If lo, the two famous Epigrams hereof in Martial are but Poetical. the Pilmire of Braffavolies Imaginary, and Cardans Monfoleum for a Flie, a meer phansie. But hereunto we know not how to affent, as having met with fome whose reals made good their representsteets it becometheoment, and full of taken not a may he are altern, although it be subbit

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as affected a cause our mongh, of will not mingle with kemife probable the Ansients were mistaken concerning is and reported by they concerving it a vegetable coner with

Vipet involved in Amber. Mars. 144.

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lacter incorace, or an dered, whereinto ceronded by are o of successifiers to but forely the concretion is Mineral, according to a de vered by Extens. For cither it is found in Mountains and mount e. tan ou game ; and fo it is a tat and unctuous lublimation in the fineth . LOIS DIEUD

Compendiously of Sundry other common Tenents, concerning Mineral and Terreous Bodies, which examined, prove either falle or dubious.

A Nd first we hear it in every mouth, and in many good Authors readit, That a Diamond, which is the hardest of stones, not vielding unto Steel, Emery, or any thing but its own powder, is yet made foft, or broke by the blood of a Goat. Thus much is affirmed by Pliny, Solinus, Albertus, Cyprian, Auftin, Isidore, and many Christian Writers; alluding hereinunto the heart of man and the precious bloud of our Saviour, who was typified by the Goat that was flain, and the scape-Goat in the Wilderness; and at the effusion of whose bloud, not only the hard hearts of his enemies relented, but the stony rocks and vail of the Temple were shattered. But this I perceive is eaffer affirmed then proved. For Lapidaries, and such as profess the art of cutting this stone, do generally deny it; and they that feem to countenance it, have in their deliveries fo qualified it, that little from thence of moment can be inferred for it. For first, the holy Fathers, without a further enquiry did take it for granted, and refted upon the authority of the first deliverers. As for Albertus, he promifeth this effect, but conditionally, nec except the Goat drink wine, and be fed with Siler montanum, petrofelinum, and fuch herbs as are conceived of power to break the stone in the bladder. But the words of Pling, from whom most likely the rest at first derived it, if strictly considered, do rather overthrow, then any way advantage this effect. His words are thefe : Hircino rumpitur fanguine, nec aliter quam recenti, calidoque macerata, & fit queque multis ittibus, sunc etiam praterquam eximias incades malleofque ferreos francens. That is, it is broken with Goats blood, but not except it be fresh and warm, and that not without many blows, and then also it will break the best Anvils and Hammers of Iron. And answerable hereto, is the affertion of Isidore and Solinus. By which account, a Diamond Reeped in Goats bloud, rather increaseth in hardness, then acquireth any softness by the infulion; for the best we have are comminuible without it; and are fo far from breaking hammers, that they submit unto pistillation, and resist not an ordinary peftle.

Upon this conceit arose perhaps the discovery of another; that the bloud of a Goat was loveraign for the Stone, as it stands commended by many good Writers, and brings up the composition in the powder of Pulvi Lister-Nicalais, and the Electuary of the Queen of Colein. Or rather because triptions. it was found an excellent medicine for the Stone, and its ability com-

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mended by some to dissolve the hardest thereos, it might be conceived by amplifying apprehensions, to be able to break a Diamond; and so it came to be ordered that the Goat should be sed with saxifragous herbs, and such as are conceived of power to break the stone. However, it were, as the effect is false in the one, so is it surely very doubtful in the other. For although inwardly received it may be very diuretick, and expulse the stone in the Kidneys; yet how it should dissolve or break that in the bladder, will require a further dispute; and perhaps would be more reasonably tried by, a warm injection thereof, then as it is commonly used. Wherein notwithstanding, we should rather rely upon the urine in a cassings bladder, a resolution of Crabs eyes, or the second distillation of Urine, as Helmont hath commended; or rather sif any such might be found) a Chilifactory menstruum or digestive preparation drawn from species or individuals, whose stomacks peculiarly dissolves applied by bodies.

Low to grant. Not onely from the innocency of its ingredients, that is, fine Sand, and the aftes of Glass-wort of Fearn, which in themselves are harmless and useful; or because I find it by many commended for the Stone, but also from experience, as having given unto Dogs above a dram thereof, subtilly powdered in Butter and Paste, without any visible

disturbance.

Why Glass is commonly held to be poylonous.

The conceit is surely grounded upon the visible mischief of Glass grofly or courfly powdered, for that indeed is mortally noxious, and effectually used by some to destroy Mice and Rats; for by reason of is acuteness and angularity, it commonly excoriates the parts through which it passeth, and solicits them unto a continual expulsion. Whereupon there enfues, fearful fymptomes, not much unlike those which attend the action of poilon. From whence not with flanding, we cannot with propriety impose upon it that name, either by occult or elementary quality, which he that concedeth will much enlarge the Catalogue of Lilts of Poisons. For many things, neither deleterious by substance or quality, are yet destructive by figure, or some occasional activity. So are Lecches destructive, and by some accounted poison; not properly, that is by temperamental contrariety, occult form, or fo much as elemental repugnancy; but because being inwardly taken they fasten upon the veins, and occasion an estusion of bloud, which cannot be easily stanched. So a Sponge is mischievous, not in it self, for in its powder it is harmless: but because being received into the stomach it swelleth, and occafioning a continual diftension, induceth a strangulation. So Pins, Necdles, cars of Rye or Barley may be poison. So Daniel destroyed the Dragon by a composition of three things, whereof neither was poison alone, nor properly all together, that is, Pitch, Fat, and Hair, according as is expressed in the History. Then Daniel took Pitch, and Fat, and Hair,

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Hair, and did feeth them together, and made lumps thereof, these he put in the Dragons mouth, and so he burst asunder. That is, the Fat and Pitch being cleaving bodies, and the Hair continually extimulating the parts: by the action of the one, Nature was provoked to expell, but by the tenacity of the other forced to retain: so that there being lest no passage in or out, the Dragon brake in pieces. It must therefore be taken of grosly-powdered Glass, what is delivered by Grevinus: and from the same must that mortal dysentery proceed which is related by Sanstorius. And in the same sense shall we only allow a Diamond to be poison; and whereby as some relate Paracelsus himself was poisoned. So even the precious fragments and cordial gems which are of frequent use in Physick, and in themselves confessed of useful faculties; received in gross and angular Powders, may so offend the bowels, as to procure desperate languors, or cause most dangerous sluxes.

That Glass may be rendred malleable and pliable unto the hammer, many conceive, and some make little doubt, when they read in Dio, Pliny, and Petronius, that one unhappily effected it for Tiberius. Which not withstanding must needs feems strange unto such as consider, that bodies are ductile from a tenacious humidity, which so holdeth the parts together; that though they dilate or extend, they part not from each others. That bodies run into Glass, when the volatile parts are exhaled, and the continuating humour separated: the Salt and Earth, that is, the fixed parts remaining. And therefore vitriscation maketh bodies brittle, as destroying the viscous bumours which binder the disruption of parts. Which may be verified even in the bodies of Metals. For Glass of Lead or Tin is fragile, when that glutinous Sulphur hath been fired out, which made their bodies ductile.

He that would most probably attempt it, must experiment upon Gold. Whose fixed and flying parts are so conjoined, whose Sulphur and continuating principle is so united unto the Salt, that some may be hoped to remain to hinder fragility after vitrification. But how to proceed, though after frequent corrosion, as that upon the agency of fire, it should not revive into its proper body before it comes to vitrifie, will prove no easie

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3. That Gold inwardly taken, either in substance, infusion, decoction or extinction, is a cordial of great efficacy, in sundry Medical uses, although a practice much used, is also much questioned, and by no man determined beyond dispute. There are hereof I perceive two extream opinions; some excessively magnifying it, and probably beyond its deserts; others extreamly vilifying it, and perhaps below its demerits. Some affirming it a powerful Medicine in many diseases, others averting that so used, it is effectual in none; and in this number are very eminent Physicians, Erastus, Duretus, Rondeletius, Brassavolus and Medicine many

many other; who befide the strigments and sudorous adhesions from mens hands, acknowledge that nothing proceedeth from Gold in the usual decoction thereof. Now the capital reason that led men unto this opinion, was their observation of the inseparable nature of Gold; it being excluded in the same quantity as it was received, without alteration

of parts, or diminution of its gravity.

Now herein to deliver somewhat which in a middle way may be entertained; we first ashrm, that the substance of Gold is invincible by the po werfullest action of natural heat; and that not only alimentally in a substantial mutation, but also medicamentally in any corporeal conversion. As is very evident, not only in the swallowing of golden bullets, but in the leffer and foliate divisions thereof: passing the stomach and guts even as it doth the throat, that is, without abatement of weight or confistence. So that it entereth not the veins with those electuaries, wherein it is mixed: but taketh leave of the permeant parts, at the mouths of the Meseraicks, or Lacteal Veffels, and accompanieth the inconvertible portion unto the siege. Nor is its substantial conversion expectible in any composition or aliment wherein it is taken. And therefore that was truly a starving absurdity, which befel the withes of Midde. And little credit there is to be given to the golden Hen, related by wendlerus. So in the extinction of Gold, we must not conceive it parteth with any of its falt or diffoluble principle thereby, as we may aftirm of Iron; for the parts thereof are fixed beyond division, nor will they separate upon the strongest test of fire. This we affirm of pure Gold; for that which is current and passeth in stamp amongst us, by reafon of its allay, which is a proportion of Silver or Copper mixed therewith, is actually dequantitated by fire, and possibly by frequent extinction.

Secondly, Although the substance of Gold be not immuted or its gravity sensibly decreased, yet that from thence some vertue may proceed either in substantial reception or insusion we cannot safely deny. For possible it is that bodies may emit vertue and operation without abatement of weight; as is evident in the Loadstone, whose effluencies are continual, and communicable without a minoration of gravity. And the like is observable in Bodies electrical, whose emissions are less subtile. So will a Diamondor Saphire emit an effluyium sufficient to move the Needle or a Straw, without diminution of weight. Nor will polished amber although it send forth a gross and corporal exhalement, be found a long time desective upon the exactest scales. Which is more easily conceivable in a continued and tenacious effluyium, whereof a great

part retreats into its body.

Thirdly, If amulets do work by emanations from their bodies, upon those parts whereunto they are appended, and are not yet observed to above their weight; if they produce visible and real effects by imponde-

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rous and invisible emissions, it may be unjust to deny the possible efficacy of Gold, in the non-omission of weight, or dependition of any ponderous particles.

Lastly, Since Stibium or Glass of Antimony, fince also its Regulus will manifestly communicate unto Water or Wine, a purging and vomitory operation; and yet the body it self, though after iterated infusions, cannot be found to abate either vertue or weight: we shall not deny but Gold may do the like, that is, impart some effluences unto the insusion,

which carry with them the separable subtilties thereof.

That therefore this Metal thus received, hath any undeniable effect, we shall not imperiously determine, although beside the former experiments, many more may induce us to believe it. But fince the point is dubious and not yet authentically decided, it will be no discretion to depend on disputable remedies; but rather in cases of known danger, to have recourse unto medicines of known and approved activity. For, beside the benefit accruing unto the sick, hereby may be avoided a gross and frequent errour, commonly committed in the use of doubtful remedies, conjointly with those which are of approved vertues; that is to impute the cure unto the conceited remedy, or place it on that whereon they place their opinion. Whose operation although it be nothing, or its concurrence not considerable, yet doth it obtain the name of the whole cure: and carrieth often the honour of the capital energie, which had no finger in it.

Herein exact and critical trial should be made by publick enjoinment, whereby determination might be settled beyond debate: for fince thereby, not only the bodies of men, but great Treasures might be preserved, it is not only an errour of Physick, but folly of State, to doubt thereof

any longer.

4. That a pot full of affices, will still contain as much water as it would without them, although by Aristotle in his Problems taken for granted, and so received by molt, is not effectable upon the strictest experiment I could ever make. For when the airy intersticies are filled, and as much of the falt of the ashes as the water will imbibe is dissolved, there remains a gross and terreous portion at the bottom, which will possess a space by it felf, according whereto there will remain a quantity of Water not receivable; fo will it come to pass in a pot of falt, although decrepitated; and so also in a pot of Snow. For so much it will want in reception, as its folution taketh up, according unto the bulk whereof, there will remain a portion of Water not to be admitted. So a Glass stuffed with pieces of Sponge will want about a fixth part of what it would receive without it. So Sugar will not dissolve beyond the capacity of the Water, nor a Metal in aqua forth be corroded beyond its reception. And so a pint of salt of Tartar exposed unto a moist air until it dissolve, will make far more liquor, or as some term it oyl, then the former measure will contain. Nor

Nor is it only the exclusion of air by water, or repletion of cavities. poffeffed thereby, which causeth a pot of ashes to admit so great a quantity of Water, but also t e solution of the salt of the ashes into the body. of the distolvent. So a por of affect will receive somewhat more of hot Water then of cold, for the warm water imbibeth more of the Salt; and a veffel of afthes more then one of pin-dust or filings of Iron; and a Glass full of Water will yet drink in a proportion of Salt or Sugar with-

out overflowing.

Nevertheless to make the experiment with most advantage, and in which fense it approacheth nearest the truth, it must be made in ashes throughly burnt and well reverberated by fire, after the falt thereof hath been drawn out by iterated decoctions. For then the body being reduced nearer unto Earth, and emptied of all other principles, which had former ingreffion unto it, becometh more porous, and greedily drinketh in water. He that hath beheld what quantity of Lead the test of saltless ashes will imbibe, upon the refining of Silver, hath encouragement to think it will do very much more in water.

The Ingredients of Gun-Dowqer.

5. Of white powder and fuch as is discharged without report, there is no small noise in the World: but how far agreeable unto truth, few I perceive are able to determine. Herein therefore to fatisfie the doubts of fome, and amuse the credulity of others, We first declare, that Gunpowder confilteth of three ingredients, Salt-petre, Small-coal, and Brimstone. Salt-petre although it be also natural and found in several places, yet is that of common use an artificial Salt, drawn from the infusion of salt Earth, as that of Stales, Stables, Dove-houses, Cellers, and other covered pleces, where the rain can neither dissolve, nor the Sun approach to resolve it. Brimstone is a Mineral body of fat and inflamable parts, and this is either used crude, and called Sulphur Vive, and is of a sadder colour; or after deputation, fuch as we have in magdeleons or rolls, of a lighter yellow. Small-coal is known unto all, and for this use is made of Sallow, willow, Alder, Hazel, and the like; which three proportionably mixed, tempered, and formed into granulary bodies, do make up that Powder which is in ule for Guns.

Now all thefe, although they bear a share in the discharge, yet have they distinct intentions, and different offices in the composition. From Brimstone proceedeth the piercing and powerful firing; for Small-coal and Petre together will onely fpit, nor vigoroufly continue the ignition. From Small-coal ensueth the black colour and quick accention; for neither Brimstone nor Petre, although in Powder, will take fire like Smallcoal, nor will they easily kindle upon the sparks of a Flint; as neither will Camphire, a body very inflamable: but Small-coal is equivalent to Tinder, and serveth to light the Sulphur. It may also serve to diffuse the ignition through every part of the mixture; and being of more gross and fixed parts, may feem to moderate the activity of Salt-petre, and pre-

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vent too halty rarcfaction. From Salt-petre proceedeth the force and the report; for Sulphur and Small-coal mixed will not take fire with noise, or exilition and Powder which is made of impure and greafic Petre hath but a weak emission, and giveth a faint report. And therefore in the three forts of Powder the strongest containeth most Salt-petre, and the proportion thereof is about ten parts of Petre, unto one of Coal and Sulphur,

But the immediate cause of the Report, is the vehement commotion of the air upon the fudden and violent eruption of the Powder; for that being fuddenly fired, and almost altogether, upon this high rarefaction. requireth by many degrees a greater space then before its body occupied; but finding refiltance, it actively forceth his way, and by concusfion of the air occasioneth the Report. Now with what violence it forceth upon the air, may easily be conceived, if we admit what Cardan affirmeth, that the Powder fired doth occupy an hundred times a greater space then its own bulk ; or rather what Snellius more exactly account- The cause of eth; that it exceedeth its former space no less then 12000 and 500 times. Thunder. And this is the reason not only of this fulminating report of Guns, but may resolve the cause of those terrible cracks, and affrighting noises of Heaven; that is, the nitrous and sulphureous exhalations, set on fire in the Clouds; whereupon requiring a larger place, they force out their way, notionly with the breaking of the cloud, but the laceration of the air about it. When if the matter be spirituous, and the cloud compact, the noise is great and terrible: If the cloud be thin, and the Materials weak, the cruption is languid, ending in corulcations and flashes without noise, although but at the distance of two miles; which is esteemed the remotest distance of clouds. And therefore such lightnings do seldom The greatest any harm. And therefore also it is prodigious to have thunder in a clear diffance of the sky, as is observably recorded in some Histories.

From the like cause may also proceed subterraneous Thunders and The cause of Earthquakes, when fulphureous and nitreous veins being fired, upon ra- Banthquakes. refaction do force their way through bodies that reful them. Where if the kindled matter be plentiful, and the Mine close and firm about it, subversion of Hills and Towns doth sometimes follow: If scanty, weak, and the Earth hollow or porous, there only ensueth some faint concussion or tremulous and quaking Motion. Surely, a main reason why the Ancients were so imperfect in the doctrine of Meteors, was their ignorance of Gun-powder and Fire-works, which best discover the causes of many

thereof.

Book II.

Now therefore he that would destroy the report of Powder, mustwork upon the Petre; he that would exchange the colour, must think: how to alter the Small-coal. For the one, that is, to make white Powder, it is furely many ways feasible: The best Iknow is by the powder of rotten Willows, Spunk, or Touch-wood prepared, might perhaps make it in his Pyro-Buffet; and some, as Beringuccio affirmeth, have promifed to make it rechnia,

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Red. All which notwithstanding doth little concern the Report, for that, as we have shewed, depends on another Ingredient. And there. fore also under the colour of black, this principle is very variable; for it is made not onely by Willow, Alder, Hazel, &c. But some above all commend the coals of Flax and Rushes, and some also contend the same

may be effected with Tinder.

As for the other, that is, to destroy the Report, it is reasonably at tempted but two ways; either by quite leaving out, or elfe by filencing the Salt-petre. How to abate the vigour thereof, or filence its bombulation, a way is promifed by Porta, not only in general terms by fome fat bodies, but in particular by Borax and butter mixed in a due propos tion; which faith he, will fo go off as scarce to be heard by the discharger; and indeed plentifully mixed, it will almost take off the Report, and also the force of the charge. That it may be thus made without Salt-petre, I have met with but one example, that is, of Alphonfus Duke of Ferrara, who in the relation of Braffavolus and Cardan, invented fuch a Powder as would discharge a bullet without Report.

That therefore white Powder there may be, there is no abfurdity; that also such a one as may give no report, we will not deny a possibility. But this however, contrived either with or without Salt-petre, will furely be of little force, and the effects thereof no way to be feared: For as it omits of Reportt fo will it of effectual exclusion, and so the charge be of little force which is excluded. For thus much is reported of that famous Powder of Alphonsus, which was not of force enough to kill a Chicken, according to the delivery of Braffavolus. pulvis inventus est qui glandem sine bombo projecit, nec tamen vehemente

ut vel pullum interficere poffit.

It is not to be denied, there are ways to discharge a bullet, not only with Powder that makes no noise, but without any Powder at all; as is done by Water and Wind guns, but these afford no fulminating Report and depend on fingle principles. And even in ordinary Powder there are pretended other ways to alter the noise and strength of the dilcharge; and the best, if not only way, confilts in the quality of the No tre: for as for other ways which make either additions or alterations in the Powder, or charge, I find therein no effect: That unto every pound of Sulphur, an adjection of one ounce of Quick-filver, or unto every pound of Petre, one ounce of Sal Armoniac will much intend the force, and confequently the Report, as Beringuccio hath delivered, I find no fuccels therein. That a piece of Opium will dead the force and blow, as some have promised. I find herein no such peculiarity, no more then in any Cum or viscose body: and as much effect there is to be found from Scammony. That a bullet dipped in oyl by preventing the transpiration of air, will carry farther, and pierce deeper, as Porta affirmeth, my experience cannot discern. That Quick-silver is more destructive

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then thot, is furely not to be made out; for it will scarce make any penetration, and discharged from a Pistol, will hardly pierce through a Parchment. That Vinegar, spirits of Wine, or the distilled water of Cat. events Orange-pills, wherewith the Powder is tempered, are more effectual un- menti intorno to the Report then common Water, as some do promile, I shall not saf- a un Bombarfirm; but may affuredly more conduce unto the prefervation and durance direct

of the Powder, as Cataneo hath well observed.

That the heads of arrows and bullets have been discharged with that force, as to melt or grow red hot in their flight, though commonly received, and taken up by Aristotle in his Meteors, is not so easily allowable by any, who shall consider, that a Bullet of Wax will mischief without melting; that an Arrow or Bullet discharged against Linen or Paper do not fet them on fire; and hardly apprehend how an Iron should grow red hot, fince the swiftest motion at hand will not keep one red that hath been made red by fire; as may be observed in swinging a red hot Iron. about, or fastning it into a Wheel; which under that motion will fooner grow cold then without it. That a Bullet also mounts upward upon the horizontall or point-blank discharge, many Artists do not allow: who contend that it describeth a parabolical and bowing line, by

reason of its natural gravity inclining it always downward.

But, Beside the prevalence from Salt-petre, as Master-ingredient in the mixture; Sulphur may hold a greater use in the composition and further activity in the exclusion, then is by most conceived. For Sulphur vive makes better Powder then common Sulphur, which nevertheless is of a quick accension. For Small-coal, Salt petre, and Camphire made into Powder will be of little force, wherein notwithstanding there wants not the accending ingredient. And Campbire though it flame: well, yet will not flush so lively, or defecate Salt-petre, is you inject it thereon, like Sulphur; as in the preparation of Sal prunella. And lastly, though many ways may be found to light this Powder, yet is there none I know to make a strong and vigorous Powder of Salt-petre, without: the admixtion of Sulphur. Arsenic red and yellow, that is Orpement and Sandarach may perhaps do fomething, as being inflamable and containing Sulphur in them; but containing alfola falt, and mercurial mixtion, they will be of little effect; and white or crystalline Arsenic of less, for that being artificial, and sublimed with falt, will not endure stammation.

This Antipathy or contention between Salt-petre and Sulphur upon an actual fire, in their complear and distinct bodies, is also manifested in their preparations, and bodies which invisibly contain them. Thus in the preparation of Crocus Metallorum; the matter kindleth and flusheth like Gunpowder, wherein notwithstanding, there is nothing but Antimony and Salt-petre. But this may proceed from the Sulphur of Antimony, not enduring the society of Salt-petre; for after three

or four accentions, through a fresh addition of Petre, the Powder will flush no more, for the sulphur of the Antimony is quite exhaled. Thus Iron in Agua forsis will fall into ebullition, with noise and emication, as also a crass and fumid exhalation, which are caused from this combat of the sulphur of Iron, with the acid and nitrous spirits of Aqua foring So is it also in Aurum fulminans, or Powder of Gold distolved in Aqua Regis, and precipitated with oyl of Tartar, which will kindle without an actual fire, and afford a report like Gun-powder; that is not as Crollius affirmeth from any Antipathy between Sal Armoniac and Tartar, but rather between the nitrous spirits of Aqua Regis, commixed per minima with the fulphur of Gold, as Sennertus hath ob. ferved.

6. That Coral (which is a Lithophyton or stone-plant, and groweth at the bottom of the Sea) is foft under Water, but waxeth hard in the air, although the affertion of Dioscorides, Pliny, and consequently Solle

De confenfis Chymicorum, erc.

> nus, Isidore, Rueus, and many others, and stands believed by most, we have some reason to doubt, especially if we conceive with common Believers, a total foftness at the bottom, and this induration to be singly made by the air, not only from fo sudden a petrifaction and strange induration, not easily made out from the qualities of air, but because we find it rejected by experimental enquiries. Johannes Bequinus in his

In the French Copy.

How Coral of a Plant becomes a Stone

Chapter of the tincture of Coral, undertakes to clear the World of this Error, from the express experiment of John Baptista de Nicole, who was Over-feer of the gathering of Coral upon the Kingdom of Thunu, This Gentleman, faith he, desirous to find the nature of Coral, and to be resolved how it groweth at the bottom of the Sea, caused a man to go down no less then a hundred fathom, with express to take notice whether it were hard or fost in the place where it groweth. Who returning, brought in each hand a branch of Coral, affirming it was as hard at the bottm, as in the air where he delivered it. The same was also confirmed by a trial of his own, handling it a fathom under water before it felt the air. Bætim in his acurate Tract De Gemmis, is of the same opinion not ascribing its concretion unto the air, but the coagulating spirits of Salt, and lapidifical juice of the Sea, which entring the parts of that Plant, overcomes its vegetability, and converts it into a lapidcous substance. And this, saith he, doth happen when the Plant is ready to decay; for all Coral is not hard, and in many concreted Plants fome parts remain unpetrified, that is the quick and livelier parts remain as Wood, and were never yet converted. Now that Plants and ligneous bodies may indurate under Water without approachment of air, we have experiment in Coralline, with many Coralloidal concretions; and that little Stony Plant which Mr. Johnson nameth, Hippuris coralloides, and Gesner, foliis mansu Arenosis, we have found in fresh water, which is the less concretive portion of that Element. We have also with us the visible

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petrification of Wood in many waters, whereof fo much as is covered with water converteth into flone; as much as is above it and in the air, retaineth the form of Wood, and continueth as before.

Now though in a middle way we may concede, that some are soft and others hard; yet whether all foral were first a woody substance, and afterward converted; or rather fome thereof were never fuch, but from the sprouting spirit of Salt, were able even in their stony natures to rami- Gans Hillor. fie and fend forth branches; as is observable in some stones, in filver and Corale metallick bodies, is not without some question. And such at least might some of those be, which Fiaroumti observed to grow upon Bricks at

the bottom of the Sea, upon the coast of Barbarie.

7. We are not throughly resolved concerning Porcellane or China diffies, that according to common belief they are made of Earth, which lieth in preparation about an hundred years under ground; for the relations thereof are not onely divers, but contrary, and Authors agree not herein. Guido Pancirollus will have them made of Egg-shells, Lobstershells, and Gypsum laid up in the Earth the space of 80 years : of the fame affirmation is Scaliger, and the common opinion of most. Ramuzius in his Navigations is of a contrary affertion, that they are made out of Earth, not laid under ground, but hardned in the Sun and Wind, the space of forty years. But Gonzales de Mendoza, a man imployed into (hina from Philip the second King of Spain, upon enquiry terthe china; and ocular experience, delivered a way different from all these. For in- dishes be quiring into the artifice thereof, he found they were made of a Chalky made, Earth; which beaten and steeped in water, affordeth a cream or fatness on the top, and a gross subsidence at the bottom; out of the cream or superfluitance, the finest dishes, faith he, are made, out of the refidence thereof the courfer; which being formed, they gild or paint, and not after an hundred years, but prefently commit unto the furnace. This, faith he, is known by experience, and more probable then what Odoardus Barbosa hath delivered, that they are made of shells, and buried under earth an hundred years. And answerable in all points hereto, is the relation of Linfchotten, a diligent enquirer, in his Oriental Navigations. Later confirmation may be had from Alvarez the Jesuit, who lived long in those parts, in his relations of (hina. That Porcellane Vessels were made but in one Town of the Province of Chiamsi: That the earth was brought out of other Provinces, but for the advantage of water, which makes them more polite and perspicuous, they were only made in this. That they were wrought and fathioned like those of other Countries, whereof some were tincted blew, some red, others yellow, of which

The latest account hereof may be found in the voyage of the Dutch Embassadors sent from Batavia unto the Emperour of China, printed in French 1665. Which plainly informeth, that the Earth whereof Porcellane

colour only they presented unto the King.

Of What mat-

dishes are made, is brought from the Mountains of Hoang, and being formed into square loaves, is brought by water, and marked with the Emperours Seal: that the Earth it self is very lean, fine, and thining like Sand,: and that it is prepared and sashioned after the same manner which the Italians observe in the fine Earthen Vessels of Faventia or Fames: that they are so reserved concerning that Artisice, that 'tis only revealed from Father unto Son: that they are painted with Indico baked in a fire for sisteen days together, and with very dry and not smoaking Wood: which when the Author had seen he could hardly contain from laughter at the common opinion above rejected by us.

Now if any enquire, why being so commonly made, and in so shorts time, they are become so scarce, or not at all to be had? The Answer is given by these last Relators, that under great penalties it is sorbidden to carry the first sort out of the Country. And of those surely the properties must be verified, which by Scaliger and others are ascribed unto China-dishes: That they admit no poisson, that they strike fire, that they will grow hot no higher then the liquor in them ariseth. For such as pass amongst us, and under the name of the finest, will only strike fire, but not discover Aconite, Mercury, or Arsenie; but may be useful in-

dysenteries and fluxes beyond the other.

8. Whether a Carbuncle (which is esteemed the best and biggest of Rubies) doth flame in the dark, or shine like a coal in the night, though generally agreed on by common Believers, is very much questioned by many. By Miline, who accounts it a Vulgar Error: By the learned Basine, who could not find it verified in that famous one of Rodulphus, which was as big as an Egg, and esteemed the best in Europe. Wherefore although we dispute not the possibility, and the like is said to have been observed in some Diamonds, yet whether herein there be not too high an apprehension, and above its natural radiancy, is not without just doubt: however it be granted a very splendid Gem, and whose sparks may somewhat resemble the glances of fire, and Metaphorically deserve that name. And therefore when it is conceived by fome, that this Stone in the Brest-place of Aaron respected the Tribe of Dan, who burnt the City of Laish; and Sampson of the same Tribe, who fired the Corn of the Philistims; in some sense it may be admitted, and is no intollerable conception.

As for that Indian Stone that shined so brightly in the Night, and pretended to have been shewn to many in the Court of France, as Andrew Chiocom hath declared out of Thuanus, it proved but an imposture, as that eminent Philosopher Licetus hath discovered, and therefore in the revised Editions of Thuanus, it is not to be found. As for the Phosphorus or Bononian Stone, which exposed unto the Sun, and then closely shut up, will afterward afford a light in the dark; it is of unlike con-

sideration, for that requireth calcination or reduction into a dry powder

Lices de quefis. per Epifolas.

Liset de lapide Bononiense,

by fire, whereby it imbibeth the light in the vaporous humidity of the air about it, and therefore maintaineth its light not long, but goes out

when the vaporous vehicle is confumed.

9. Whether the Etites or Eagle-ftone hath that eminent property to promote delivery or reftrain abortion, respectively applied to lower or unward parts of the body, we shall not discourage common practice by our queltion: but whether they answer the account thereof, as to be taken out of Eagles nests, co-operating in Women unto such effects, as they are conceived toward the young Eagles: or whether the fingle fignature of one stone included in the matrix and belly of another, were not sufficient at first, to derive this vertue of the pregnant Stone, upon others in impregnation, may yet be farther considered. Many forts there are of this ratling Stone, beside the Geodes, containing a softer substance in it. Divers are found in England, and one we met with on the Sea-shore, but because many of eminent use are pretended to be brought from Iseland, wherein are diversairies of Eagles; we cannot omit to deliver what we received from a learned person in that Country, Aties Theodorus Toan in midis Aquilarum aliquando fuerit repertus, nescio. Nostra certe me- nu Hisserdale moria, etiam inquirentibus non contigit invenife, quare in fabalis ba- Paffor. bendum.

10. Terrible apprehensions and answerable unto their names, are raifed of Fagrie Itones, and Elves spurs, found commonly with us in Stone, Chalk, and Marl-pits, which notwithstanding are no more then Echinometrices and Belemmies, the Sea-Hedg-Hog, and the Dart-Stone, arising from some filiceous Roots, and softer then that of Flint, the Mafter-Rone, lying more regularly in courses, and arising from the primary and strongest spirit of the Mine. Of the Echinites, such as are found in Chalkpits are white, glaffie, and built upon a Chalky infide; fome of an hard and flinty substance, are found in Stone-pits and elsewhere. Common opinion commendeth them for the Stone, but are most practically used against Films in Horses eyes.

11. Laftly, He must have more heads then Rome had Hills, that makes out half of those vertues ascribed unto stones, and their not only Medical, but Magical proprieties, which are to be found in Authors of great Name. In Pfellus, Serapian, Evax, Albertus, Aleazar, Marbodeus; in

Maiolus, Rueus, Mylius, and many more.

That Lapis Lafuli hath in it a purgative faculty we know; that Bezoar Against poiis Antidotal, Lapis Indaicus diuretical, Coral Antepileptical, we will son-That Cornelians, Jaspis, Heliotropes, and Blood-stones, may Provoking be of vertue to those intentions they are implied, experience and visible Against the effects will make us grant. But that an Amethyst prevents inebriation, Falling ficks that an Emerald will break if worn in copulation. That a Diamond laid ness. under the pillow, will betray the incontinency of a wife. That a captire is preservative against inchantments; that the sume of an Agath will

avert a tempelt, or the wearing of a Crysoprase make one out love with Gold; as some have delivered, we are yet, I consess, to believe, and in that insidelity are likely to end our days. And therefore, they which in the explication of the two Beryls upon the Ephod, or the twelve stones in the Rational or Brest-plate of Aaron, or those twelve which garnished the wall of the holy City in the Apocalyps, have drawn their significations from such as these; or declared their symbolical verities from such traditional falsities, have surely corrupted the sincerity of their Analogies,

or misunderstood the mystery of their intentions.

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Most men conceive that the twelve stones in Aarons brestplate made a Jewel surpassing any, and not to be parallel'd; which notwithstanding will hardly be made out from the description of the Text, for the names of the Tribes were engraven thereon, which must notably abate their lustre. Beside, it is not clear made out that the best of Gemms, a Diamond was amongst them; nor is to be found in the lift thereof, set down by the Ferusalem Thargum, wherein we find the darker stones of Sardine, Sardonix, and Tasper; and if we receive them under those names wherein they are usually described, it is not hard to contrive a more illustrious and splendent fewel. But being not ordained for meer lustre by diaphanous and pure tralucencies, their mysterious significations became more considerable then their Gemmary substances; and those no doubt did nobly answer the intention of the Institutor. Beside some may doubt whether there be twelve diftinct species of noble tralucent Gemms in nature, at least yet known unto us, and such as may not be referred unto some of those in high esteem among us, which come short of the number of twelve; which to make up we must find out some others to match and join with the Diamond, Beryl, Saphyr, Emerald, Ametheft, Topaz, Cryfolit, Jacynth, Ruby, and if we may admit it in this number, the Oriental Gianat,

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CHAP. VI.

of fundry Tenets concerning Vegetables or Plants, which examined, prove either false or anbious.

Any Mola's and false conceptions there are of Mandrakes, the first from great Antiquity, conceiveth the Root thereof resembleth the shape of Min; which is a conceit not to be made out by ordinary inspection, or any other eyes, then such as regarding the Clouds, be-

hold them in Ihapes conformable to pre-apprehensions.

Now whatever encouraged the first invention, there have not been wanting many ways of its promotion. The first a Catachrestical and far derived similitude it holds with Man; that is, in a bifurcation or division of the Root into two parts, which some are content to call Thighs; whereas notwithstanding they are oft-times three, and when but two, commonly so complicated and crossed, that men for this deceit are fain to effect their design in other plants; And as fair a resemblance is often found in Carrots, Parsnips, Briony, and many others. There are, I confess, divers Plants which carry about them not only the shape of parts, but also of whole Animals, but surely not all thereof, unto whom this conformity is imputed. Whoever shall peruse the signatures of Crossins, or rather the Phytognomy of Porta, and strictly observe how vegetable Realities are commonly forced into Animal Representations, may easily perceive in very many, the semblance is but postulatory, and must have a more assimilating phansie then mine to make good many thereof.

Illiterate heads have been led on by the name, which in the first syllable Manager, expresseth its Representation; but others have better observed the Laws Spelunca; of Etymology, and deduced it from a word of the fame language, because it delighteth to grow in obscure and shady places; which derivation, although we shall not stand to maintain, yet the other seemeth answerable unto the Etymologies of many Authors, who often confound such nominal Notations. Not to enquire beyond our own profession, the Latine Physicians which most adhered unto the Arabick way, have often failed herein ; particularly Valescus de Tarranta, a received Physitian, in In the old whole Philonium or Medical practice these may be observed; Dia. rhea, faith he, Quia pluries venit in die. Harisepela, quasi barens pilis, Emorrohis, ab emach sanguis & morrohis quod est cadere. Lithargia à Litos quod est oblivio & Tarque morbus, Scotomia à Scotus quod est videre, & mias musca. Opshalmia ab opus Grace quod est succus, & Talmon quod est occulus. Paralisis, quasi lasio partis. Fistula a fos sonus & stolon quod est emissio, quasi emissio soni vel vocis. Which are derivations as strange indeed as the other, and hardly to be

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parallel'd elsewhere; confirming not only the words of one language

with another, but creating fuch as were never yet in any.

The received distinction and common Notation by Sexes, hath also promoted the conceit; for true it is, that Herbalists from ancient times, have thus distinguished them; naming that the Male, whose leaves are lighter, and Fruit and Apples rounder; but this is properly no generative division, but rather some note of distinction in colour, figure or operation. For though Empedoeles affirm, there is a mixt, and undivided Sex in Vegetables; and Sealiger upon Aristotle, doth savourably explain that opinion; yet will it not consist with the common and ordinary acception, nor yet with Aristotles definition. For if that be Male which generates in another, that Female which procreates in it self; if it be understood of Sexes conjoined, all Plants are Female; and if of disjoined and congressive generation, there is no Male or Female in them at all.

De Plantie.

The impoflures touching the Root of Mandrake,

But the Atlas or main Axis which supported this opinion, was dayly experience, and the visible testimony of sense. For many there are in feveral parts of Europe, who carry about Roots and fell them unto ignorant people, which handsomely make out the shape of Man or Woman But these are not productions of Nature, but contrivances of Art, a divers have noted, and Machiolus plainly detected, who learned this way of Trumpery from a vagabond cheater lying under his cure for the French disease. His words are these, and may determine the point, Sed profecto vanum & fabulosum, &c. But this is vain and fabulous, which ignorant people, and simple women believe; for the roots which are carried about by impostors to deceive unfruitful women, are made of the roots of Canes, Briony and other plants: for in these yet fresh and virent, they carve out the figures of men and women, first sticking therein the grains of Barley or Millet, where they intend the hair should grow; then bury them in fand until the grains shoot forth their room which at the longest will happen in twenty days; they afterward clip and trim those tender strings in the fashion of beards and other hairy tegument. All which like other impostures once discovered is easily effected, and in the root of white Briony may be practifed every spring.

What is therefore delivered in favour thereof, by Authors ancient of modern, must have it root in tradition, imposture, far derived similitude, or casual and rare contingency. So may we admit of the Epithet of Presuggras, who calls it Anthropomorphus; and that of Columella, who terms it Semihomo; more appliable unto the Man-Orchis, whose flower represents a Man. Thus is Albertus to be received when he affirmed that Mandrakes represent man-kind with the distinction of either Sea Under these restrictions may those Authors be admitted, which for this opinion are introduced by Drusius; nor shall we need to questionable

De monstris, mont rous root of Brionydescribed in Aldravandus.

Orchis Anshropomorphus cujus Icon in Rircheri Magia parastasica, De mandragova. 5,

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The second affertion concerneth its production, That it naturally groweth under Gallowses and places of execution, arising from fat or urine that drops from the body of the dead; a ftory fome what agreeable unto the fable of the Serpents teeth fowed in the earth by Cadmin; or rather the birth of Orion from the wine of Jupiter, Mercury, and Nestune. Now this opinion feems grounded on the former, that is, a conceived similitude it hath with man; and therefore from him in some was they would make out its production: Which conceit is not only erroneous in the foundation, but injurious unto Philosophy in the superstruction. Making putrifactive generations, correspondent unto seminal productions, and conceiving in equivocal effects and univocal conformity unto the efficient. Which is so far from being verified of animals in their corruptive mutations into Plants, that they maintain not this fimilitude in their nearer translation into animals. So when the Oxe corrupteth into Bees, or the Horse into Hornets, they come not forth in the image of their originals. So the corrupt and excrementous humours in man are animated into Lice; and we may observe, that Hogs, Generations Sheep, Goats, Hawks, Hens and others, have one peculiar and proper equivocal, are kind of vermine; not resembling themselves according to seminal con-regular and of ditions, yet carrying a fetled and confined habitude unto their corruptive a determinate And therefore come not forth in generations erratical, or form or fpedifferent from each other; but feem specifically and in regular shapes to cies. attend the corruption of their bodies, as do more perfect conceptions, the rule of feminal productions.

The third affirmeth the roots of Mandrakes do make a noise, or give a shrick upon eradication; which is indeed ridiculous, and false below confute; arising perhaps from a small and stridulous noise, which being firmly rooted, it maketh upon divulsion of parts. A stender foundation for such a vast conception: for such anoise we sometime observe in other

Plants, in Parfenips, Liquorish, Eringium, Flags, and others.

The last concerneth the danger ensuing, That there follows an hazard of life to them that pull it up, that some evil fate pursues them, and they live not very long after. Therefore the attempt hereof among the Ancients, was not in ordinary way; but as Pliny informeth, when they intended to take up the root of this Plant, they took the wind thereof, and with a fword describing three circles about it, they digged it up, looking toward the west. A conceit not only injurious unto truth, and confutable by daily experience, but somewhat derogatory unto the providence of God; that is, not only to impose so destructive a quality on any Plant, but to conceive a Vegetable, whose parts are useful unto many, should in the only taking up prove mortal unto any. To think he suffereth the poison of Nubia to be githered, Napellus, Aconite, and Thora, to be Granum Nueradicated, yet this not to be moved. That he permitteth Arfenick and bie. mineral poisons to be forced from the bowels of the Earth, yet not this

from the surface thereof. This were to introduce a second forbiden fruit, and inhance the first malediction, making it not only mortal for Adam to taste the one, but capital unto his posterity to eradicate or die no the other. 10.2 Engage of the des

Now what begot, at least promoted to strange conceptions, might be the magical opinion hereof; this being conceived the Plant so much in use with Circe, and therefore named Circea, as Dioscorides and This. phrastus have delivered, which being the eminent Sorcerers of elder ftory, and by the magick of simples believed to have wrought many wonders: some men were apt to invent, others to believe any tradition or magical promife thereof.

Analogus relations concerning other plants, and fuch as are of new affinity unto this, have made its currant smooth, and pass more easily among us. For the same effect is also delivered by Tosephus, concerning the root Baaras; by Elian of Cynospastus; and we read in Homer the

very fame opinion concerning Moly,

Muho A mis makeres good, zaheres 3 T opvards Ardian je Ingroin, ged of re marme duwar).

The Gods it Moly call, whose Root to dig away; Is dangerous unto Man; but Gods, they all things may.

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Now parallels or like relations alternately relieve each other, when neither will pass asunder, yet are they plausible together; their mu-

tual concurrences supporting their solitary instabilities.

Signaturists have somewhat advanced it; who seldom omitting what Ancients delivered; drawing into inference received distinction of sex not willing to examine its humane resemblance; and placing it in the form of strange and magical simples, have made men suspect there was more therein, then ordinary practice allowed; and so became apt to embrace whatever they heard or read conformable unto fuch con-

ceptions.

Laftly, The conceit promoteth it felf: for concerning an effect whole trial must cost so dear, it fortifies it self in that invention; and few there are whose experiment it need to fear . For (what is most contemptible) although not only the reason of any head, but experience of every hand may well convict it, yet will it not by divers be rejected; for prepoffelsed heads will ever doubt it, and timorous beliefs will never dare to trit So these Traditions how low and ridiculous soever, will find sulpition in some, doubt in others, and serve as tests or trials of Melancholy

mon, Ginger, and superstitious tempers for ever. 2. That Cinamon, Ginger, Clove, Mace, and Nutmeg, are but the several parts and fruits of the same tree, is the common belief of thole

That Cina-Clove, Oc. are not of the fame tree.

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which daily use them. Whereof to speak distinctly, Ginger is the root of neither Tree nor Shrub, but of an herbaseous Plant, resembling the Water Flower-De-luce, as Garcias first described; or rather the common Reed, as Lobelius since affirmed. Very common in many parts of India, growing either from Root or Seed, which in December and January they take up, and gently dried, roll it up in earth, whereby occluding the pores, they conserve the natural humidity, and so prevent corruption.

Cinamon is the inward bark of a Cinamon Tree, whereof the best is brought from Zeilan; this freed from the outward bark, and exposed unto the Sun, contracts into those folds wherein we commonly receive it. It it have not a sufficient insolation it looketh pale, and attains not its laudable colour; if it be sunned too long, it suffereth a torresaction, and

descendeth somewhat below it.

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Clove feems to be either the rudiment of a fruit, or the fruit it felf growing upon the Clove tree, to be found but in few Countries. The most commendable is that of the Isles of Molucca; it is first white, afterward green, which beaten down, and dried in the Sun, becometh black,

and in the complexion we receive it.

Nutmeg is the fruit of a Tree differing from all thele, and as Garciae describeth it, somewhat like a Peach; growing in divers places, but fructifying in the Isle of Banda. The fruit hereof consistent of four parts; the first or outward part is a thick and carnous covering like that of a Wal-nut. The second a dry and slosculous coat, commonly called Mace. The third a harder tegument or shell, which lieth under the Mace. The fourth a Kernel included in the shell, which is the same we call Nutmeg. All which both in their parts and order of disposure, are easily discerned in those fruits, which are brought in preserves unto us.

Now if because Mace and Nutmegs proceed from one Tree, the rest must bear them company; or because they are all from the *East Indies*, they are all from one Plant: the Inference is precipitous, nor will there

fuch a Plant be found in the Herbal of Nature.

3. That Viscous Arboreous or Misselve is bred upon Trees, from seeds which Birds, especially Thrushes and Ring-doves let fall thereon, was the Creed of the Ancients, and is still believed among us, is the account of its production, set down by Pliny, delivered by Virgil, and subscribed by many more. It so, some reason must be assigned, why it groweth onely upon certain Trees, and not upon many whereon these Birds do light. For as Exotick observers deliver, it groweth upon Almonderces, Chesnut, Apples, Oaks, and Pine-trees. As we observe in England very commonly upon Apple, Crabs, and White-thorn; sometimes upon Sallow, Hazel, and Oak: rarely upon Ash, Limetree, and Maple; never, that I could observe, upon Holly, Elm, and many more. Why it groweth not in all Countries and places where these Birds are found; for so Brassavolus affirmeth, it is not to be found in the Territory of

Forrara, and was fain to supply himself from other parts of leaty. Whi

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if it ariseth from a seed, if sown it will not grow again, as Pliny affirmeth, and as by setting the Berries thereof, we have in vain attempted its production; why if it cometh from seed that falleth upon the tree, it grow eth often downwards, and puts forthunder the bough, where seed can neither fall nor yet remain. Hereof beside some others, the Lord Parulam hath taken notice. And they surely speak probably who make it an arboreous excrescence, or rather super plant, bred of a viscous and superfluous sap which the tree it self cannot affimilate. And therefore sprouteth not forth in boughs and surcles of the same shape, and similar unto the Tree that beareth it; but in a different form, and secondary unto its specifical intention, wherein once failing, another form succeedeth: and in the first place that of Misseltoe, in Plants and Trees disposed to its production. And therefore also where ever it groweth, it is of constant shape, and maintains a regular figure; like other supercrescences, and such as living upon the stock of others, are termed parasitical

Plants, as Polypody, Moss, the smaller Capillaries, and many more: So that several regions produce several Misselves: India one, America and

ther, according to the law and rule of their degenerations.

Now what begot this conceit, might be the enlargement of some part of truth contained in its flory. For certain it is, that some Birds do feed upon the berries of this Vegetable, and we meet in Aristotle with one kind of Trush called the Missel. Trush, or feeder upon Misselva. But that which hath most promoted it, is a received proverb, Turdus sit malum casat; appliable unto such men as are authors of their own missertune. For according unto ancient tradition and Plinies relation, the Bird not able to digest the fruit whereon she feedeth; from her inconverted muting ariseth this Plant, of the Berries whereof Birdlime is made, wherewith she is after entangled. But although Proverbs be popular principles, yet is not all true that is proverbial; and in many thereof, there being one thing delivered, and another intended; though the ver-

bal expression be falle, the Proverb is true enough in the verity of its in

As for the Magical vertues in this Plant, and conceived efficacy unto

tention.

Druides, the great admirers of the Oak, especially the Misseltoe that give thereon; which according unto the particular of Pling, they gathered with great solemnity. For after facrifice the Priest in a white garment ascended the tree, cut down the Misseltoe with a golden hook, and received it in a white coat; the vertue whereof was to resist all poisons, and make fruitful any that used it. Vertues not expected from Classical practice; and did they fully answer their promise which are so commended, in Epileptical intentions, we would abate these qualities. Country

practice hath added another, to provoke the after-birth, and in that cake

What the Milfeltoe in some Trees is,

Paganith furperitition about the Miffeltoe of

the Oak.

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the decoction is given unto Cows. That the Berries are poison as some conceive, we are fo far from averring, that we have fafely given them inwardly; and can confirm the experiment of Braffavolus, that they have

some purgative quality.

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4. The Role of Jeriche, that flourishes every year just about Christmas Eve, is famous in Christian reports; which notwithstanding we have fome reason to doubt, and are plainly informed by Bellonius, it is but a Monastical imposture, as he hath delivered in his observations, concerning the Plants in Jeriche. That which promoted the conceit, or perhaps begot its continuance, was a propriety in this Plant. For though it be dry, yet will it upon imbibition of moisture dilate its leaves, and explicate its flowers contracted, and feemingly dried up. And this is to be effected not only in the Plant yet growing, but in lome manner also in that which is brought exuccous and dry unto us. Which quality being observed, the subtilty of contrivers did commonly play this shew upon the Eve of our Saviours Nativity, when by drying the Plant again, it closed the next day, and so pretended a double mystery : referring unto the opening and closing of the womb of Mary.

There wanted not a specious confirmation from a text in Ecclesiasti- Cap. 24. cus, Quafi palma exaltata sum in Cades, & quafi plantatio Rosa in fericho: I was exalted like a Palm-tree in Engaddi, and as a Role in Jericho. The oun in jobs.

found whereof in common ears, begat an extraordinary opinion of the Rose of that denomination. But herein there seemeth a miltake : for by the Rose in the Text, is implied the true and proper Rose, as first the Greek, and ours accordingly rendreth it. But that which passeth under this name, and by us is commonly called the Rose of Fericho, is properly no Rose, but a small thorny shrub or kind of Heath, bearing little white Howers, far differing from the Role; whereof Bellonius a very inquisitive Herbalift, could not find any in his travels thorow Jeriche. A Plant fo unlike a Rose, it hath been mistaken by some good Simplift for Amomum; which truly understood is so unlike a Rose, that as Dioscorides delivers, the flowers thereof are like the white Violet, and its leaves resem-

ble Briony.

Suitable unto this relation almost in all points is that of the Thorn at Glassenbury, and perhaps the daughter hereof; herein our endeavours as yet have not attained fatisfaction, and cannot therefore enlarge. much in general we may observe, that Ilrange effects, are naturally taken for miracles by weaker heads, and artificially improved to that apprehension by wifer. Certainly many precocious Trees, and such as spring Such a Thorn in the Winter, may be found in most parts of Europe, and divers also in there is in England. For most Trees do begin to sprout in the Fall of the leaf or Parham Park Autumn, and if not kept back by cold and outward causes, would leaf in Suffelk, and about the Solftice. Now if it happen that any be so strongly constituted, as to make this good against the power of Winter, they may pro-

How Beer and

Wine come 10

Lightning.

duce their leaves or bloffoms in that feafon. And perform that in fome fingles, which is observable in whole kinds; as in loy, which blossom and bears at least twice a year, and once in the Winter; as also in Furz, which flowereth in that feafon.

5. That ferrum Equinum, or Sferra Cavallo hath a vertue attractive of Iron, a power to break locks, and draw off the shoes of a Horse that passeth over it : whether you take it for one kind of Securidaca, or will also take in Lunaria, we know it to be false: and cannot but wonder at Mathiolus, who upon a parallel in Pliny was staggered into suspension. Who notwithstanding in the imputed vertue to open things, close and thut up , could laugh himself at that promise from the herb Ethiopis or Athiopian mullen; and condemn the judgment of Scipio, who having fuch a picklock, would spend so many years in battering the Gates of Carshage. Which strange and Magical conceit, seems to have no deeper root in reason, then the figure of its feed; for therein indeedit somewhat resembles a Horse-shoe; which notwithstanding Baptista Porta hath thought too low a fignification, and raised the same unto a Lu-

6. That Bayes will protect from the mischief of Lightning and Thun-

nary representation.

der, is a quality ascribed thereto, common with the Fig-tree, Eagle, and skin of a Seal. . Against so famous a quality, Vicomercatus produceth experiment of a Bay-tree blafted in Italy. And therefore although Tibe. rius for this intent, did wear a Lawrel upon his Temples; yet did Am gustus take a more probable course, who fled under arches and hollow vaults for protection. And though Porta conceive, because in a strepe rous eruption, it rifeth against fire, it doth therefore refist lightning, yet is that no emboldning Illation. And if we consider the threefold effect of Jupiters Trifulk, to burn, discuss, and terebrate; and if that be true which is commonly delivered, that it will melt the blade, yet pass the scabbard; kill the child, yet spare the mother; dry up the wine, yet leave the hoghead entire : though it favour the amulet, it may not spare us; it will be unfure to rely on any prefervative, 'tis no fecurity to be dipped in Styx, or clad in the armour of Ceneus. Now that Beer, Wine, and other Liquors, are spoiled with lightning and thunder, we conceive be spoiled by it proceeds not onely from noise and concussion of the air, but also no xious spirits, which mingle therewith, and draw them to corruption; whereby they become not only dead themselves, but sometime deadly

> drank, either loft his life, or elfe his wits upon it. 7. It hath much deceived the hope of good fellows, what is commonly expected of bitter. Almonds, and though in Plutarch confirmed from the practice of Claudius his Physitian, that Antidote against ebriety hath commonly failed. Surely men much versed in the practice do err in the theory of inebriation; conceiving in that disturbance the brain doth

> unto others, as that which Seneca mentioneth; whereof who foever

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only fuffer from exhalations and vaporous ascentions from the stomack, which fat and oyly substances may suppress. Whereas the prevalent in- How drinks toxication is from the spirits of drink dispersed into the veins and arteries, intoxicate on from whence by common conveyances they creep into the brain, infinuate into its ventricles, and beget those vertigoes, accompanying that perversion. And therefore the same effect may be produced by a Glifter, the Head may be intoxicated by a medicine at the Heel. So the : poisonous bites of Serpents, although on parts at distance from the head, vet having entered the veins, diffurb the animal faculties, and produce. the effects of drink, or poison swallowed. And so as the Head may be disturbed by the skin, it may the same way be relieved; as is observable: in balneations, washings, and fomentations, either of the whole body, or of that part alone.

CHAP. VII:

Of some Insects, and the properties of several Plants.

I. Ew ears have escaped the noise of the Dead-watch, that is, the little clickling found heard often in many rooms, fomewhat refembling that of a Watch; and this is conceived to be of an evil omen or prediction of some persons death: wherein not withstanding there is nothing of rational prefage or just cause of terrourunto melancholy and meticulous heads. For this noise is made by a little sheath-winged gray Infect. found often in Wainscot, Benches, and Wood-work, in the Summer. We have taken many thereof, and kept them in thin boxes, wherein I have heard and feen them work and knack with a little probofcis or trunk against. the fide of the box, like Apicus Martius, or Woodpecker against a tree. It worketh best in warm weather, and for the most part, giveth not over under nine or eleven stroaks at a time. He that could extinguish the terrifying apprehensions hereof, might prevent the passions of the heart, and many cold sweats in Grandmothers and Nurses, who in the sickness. of children, are so startled with these noises.

2. The presage of the year succeeding, which is commonly made from. Infects or little Animals in Oak apples, according to the kinds thereof, either Maggot, Fly, or Spider; that is, of Famine, War, or Pestilence; whether we mean that woody excrescence, which shooteth from the branch about May, or that round and Apple-like accretion which groweth under the leaf about the latter end of Summer, is I doubt too diltinct, ... nor verifiable from event.

For Flies and Maggots are found every year, very feldom Spiders: And Helmont affirmeth he could never find the Spider and the Fly upon the same Trees, that is the signs of War and Pestilence, which often go together: Beside, That the Flies found were at first Maggots, experience hath informed us; for keeping these excrescencies, we have observed their conversions, beholding in Magnifying Glasses the daily progression thereof. As may be also observed in other Vegetable excretions, whose Maggots do terminate in Flies of constant shapes; as in the Nutgalls of the Out-landish Oak, and the Mosse tust of the wild Briar; which having gathered in November we have sound the little Maggots which lodged in wooden Cells all Winter, to turn into Flies in June.

We confess the opinion may hold some verity in the Analogy, or Emblematical phansie. For Pestilence is properly signified by the Spider, whereof some kinds are of a very venemous Nature. Famine by Maggots, which destroy the fruits of the Earth. And War not improperly by the Fly; if we rest in the phansie of Homer, who compares the va-

liant Grecian unto a Fly.

Some verity it may also have in it self, as truly declaring the corruptive constitution in the present sap and nutrimental juice of the Tree; and may consequently discover the disposition of that year, according to the plenty or kinds of these productions. For if the putrifying juices of bodies bring forth plenty of Flies and Maggots, they give forth testimony of common corruption, and declare that the Elements are full of the seeds of putrisaction, as the great number of Caterpillars, Gnats, and ordinary Insects do also declare. If they run into Spiders, they give signs of higher putrisaction, as plenty of Vipers and Scorpions are consessed to do; the putrifying Materials producing Animals of higher mischiess, according to the advance and higher strain of corruption.

Abundance of Flies, Maggots, &c what may they naturally fignisic.

> 3. Whether all Plants have feed, were more eafily determinable, if we could conclude concerning Harts-tongue, Fern, the Caterpillaries, Lunaria, and foine others. But whether those little dusty particles, upon the lower fide of the leaves, be feeds and feminal parts; or rather, as it is commonly conceived, excremental separations; we have not as yet been able to determine by any germination or univocal production from them when they have been fowed on purpose: but having set the roots of Harts tongue in a garden, a year or two after there came up three or four of the same Plants, about two yards distance from the first. Thus much we observe, that they feem to renew yearly, and come not fully out till the Plant be in his vigour : and by the help of Magnifying Glaffes we find these dusty Atoms to be round at first, and fully representing feeds, out of which at last proceed little Mites almost invisible; so that fuch as are old stand open, as being emptied of some bodies formerly included; which though discernable in Harts-tongue, is more notoriously discoverable in some differencies of Brake or Fern.

But exquisite Microscopes and Magnifying Glasses have at last cleared this doubt, whereby also long ago the noble Federicus Casius beheld the

dufts

dusts of Polypody as bigg as Pepper corns; and as Johannes Faber teltifieth, made draughts on Paper of such kind of seeds, as bigg as his Glasses represented them: and set down such Plants under the Classis of Herba

Terrifora, as may be observed in his notable Botanical Tables.

Whether the sap of Trees runs down to the roots in Winter, whereby they become naked and grow not; or whether they do not cease to draw any more, and reserve so much as sufficeth for conservation, is not a point indubitable. For we observe, that most Trees, as though they would be perpetually green, do bud at the Fall of the leaf, although they sprout not much forward untill the Spring, and warmer weather approacheth; and many Trees maintain their leaves all Winter, although they seem to receive very small advantage in their growth. But that the sap doth powerfully rise in the Spring, to repair that moisture whereby they barely subsisted in the Winter, and also to put the Plant in a capacity of fructification: he that hath beheld how many gallons of water may in a small time be drawn from a Birch-tree in the Spring, hath slender reason to doubt.

5. That Camphire Eunuchates, or begets in Men an impotency unto Venery, observation will hardly confirm; and we have found it to fail in Cocks and Hens, though given for many days; which was a more favourable trial then that of Scaliger, when he gave it unto a Bitch that was proud. For the instant turgescence is not to be taken off, but by Medicines of higher Natures; and with any certainty but one way that we know, which notwithstanding, by suppressing that natural evacuation,

may encline unto Madness, if taken in the Summer.

6. In the History of Prodigies we meet with many showrs of Wheat; how true or probable, we have not room to debate. Only thus much we shall not omit to inform, That what was this year found in many places, and almost preached for Wheat rained from the clouds, was but the feed of Ivy berries, which somewhat represent it; and though it were found in Steeples and high places, might be conveyed thither, or muted out by Birds: for many feed thereon, and in the crops of some

we have found no less then three ounces.

7. That every Plant might receive a Name according unto the disease it cureth, was the wish of Paracellus. A way more likely to multiply Empericks then Herbalists; yet what is practised by many is advantagious unto neither; that is, relinquishing their proper appellations to re-baptize them by the name of Saints, Apostles, Patriarchs, and Martyrs, to call this the herb of John, that of Peter, this of James, or Joseph, that of Mary or Barbara. For hereby apprehensions are made additional unto their proper Natures; whereon superstitious practises ensure; and stories are framed accordingly to make good their foundations.

8. We cannot omit to declare the gross mistake of many in the No-

minal apprehension of Plants; to instance but in few. An herb there is commonly called Betonica Pauli, or Pauls Betony; hereof the Peosple have some conceit in reference to St. Paul; whereas indeed that name is derived from Paulus Egineta, an ancient Physitian of Bgi--na, and is no more then Speed-well, or Fluellen. The like expe-Ctations are raised from Herba Trinitatis; which notwithstanding. obtaineth that name from the figure of its leaves, and is one kind of ·Liverwort, or Hepatica. In Milium Solis, the Epithete of the Sun hath enlarged its opinion; which hath indeed no reference thereunto, it being no more then Lithospermon, or Grummel, or rather Milium Soler; which as Serapion from Aben Tuliel hath taught us, because it grew plentifully in the Mountains of Soler, received that appellation. In Jews-ears fomething is conceived extraordinary from the Name, which is in propriety but Fungus sambucinus, or an excrescence about the Roots of Elder, and concerneth not the Nation

fore Throats.

Why the lews of the Fows, but Judas Mariot, upon a conceit, he hanged on this ear is used for Tree; and is become a famous Medicine in Quinsies, sore Throats, and strangulations ever fince. And so are they deceived in the name of Horse-Raddish, Horse-Mint, Bull-rush, and many more: conceiving therein fome prenominal confideration, whereas indeed that expression is but a Grecisin, by the presix of Hippos and Bow, that is, Horse and Bull, intending no more then Great. According whereso the great Dock is called Hippollapathum; and he that calls the Horse of Alexander, Creat-head, expresseth the same which the Greeks do in Bucephalus.

> 9. Lastly, Many things are delivered and believed of other Plants, wherein at least we cannot but suspend. That there is a property in Basil to propagate Scorpions, and that by the smell thereof they are bred in the brains of men, is much advanced by Hollerius, who found this Infect in the brains of a man that delighted much in this finell. Wherein beside that we find no way to conjoin the effect unto the cause assigned; herein the Moderns speak but timorously, and some of the Ancients quite contrarily. For, according unto Oribasius, Physitian unto Julian, The Affricans, Men best experienced in poilons, affirm, whosoever hach eaten Bass, although he be stung with a Scorpion, shall feel no pain thereby: which is a very different effect, and rather antidotally destroying, then feminally promoting its production.

> That the leaves of Catapucia or Spurge, being plucked upward or downward, respectively perform their operations by Purge or Vomit, as some have written, and old wives still do preach, is a strange conceit, ascribing unto Plants positional operations, and after the minner of the Loadstone; upon the Pole whereof if a Knife be drawn from the handle unto the point, it will take up a

Needle 3

Needle; but it drawn again from the point to the handle, it will attract it no more.

That Cucumbers are no commendable fruits, that being very wateriff, they fill the veins with crude and windy ferofities; that containing little Salt or spirit, they may also debilitate the vital acidity, and fermental faculty of the Stomach, we readily concede. But that they should be so cold, as be almost poison by that quality, it will be hard to allow, without the contradiction of Galen: who ac- In his Angecounteth them cold but in the second degree, and in that Classis have mia Sambaci. most Physitians placed them.

That Elder Berries are poison, as we are taught by tradition, experience will unteach us. And beside the promises of Blochwitius,

the healthful effects thereof daily observed will convict us.

That an Ivy Cup will separate Wine from Water, if filled with both, the Wine foaking through, but the Water still remaining, as after Pliny many have averred, we know not how to affirm; who making trial thereof, found both the liquors to foak indistinctly

through the bowl.

That Sheep do often get the Rot, by feeding in boggy grounds where Ros-folis groweth, feems beyond dispute. That this herb is the cause thereof, Shepherds affirm and deny; whether it hath a cordial vertue by sudden refection, sensible experiment doth hardly confirm, but that it may have a Balfamical and resumptive Vertue, whereby it becomes a good Medicine in Catarrhes and Consump. tive dispositions, Practice and Reason conclude. That the lentous drops upon it are not extraneous, and rather an exudation from it felf, then a rorid concretion from without: beside other grounds, we have reason to conceive; for having kept the Roots moist and earthed in close chambers, they have, though in leffer plenty, fent out these drops as before.

That Flos Affricanus is poison, and destroyeth Dogs, in two ex-

periments we have not found.

That Yew and the Berries thereof are harmless, we know.

That a Snake will not endure the shade of an Ash, we can deny. Lib. t. obser-Nor is it inconsiderable what is affirmed by Bellonius; for if his Affertion be true, our apprehension is oftentimes wide in ordinary simples, and in common use we mistake one for another. We know not the true Thyme; the Savourie in our Gardens, is not that commended of old; and that kind of Hylop the Ancients used, is unknown unto us, who make great use of another.

We omit to recite the many Vertues, and endless faculties ascribed unto Plants, which sometime occur in grave and serious Authors; and we shall make a bad transaction for truth to concede a verity in half. To reckon up all, it were imployment for Archimedes,

who undertook to write the number of the Sands. Swarms of others there are, some whereof our future endeavours may discover; common reason I hope will save us a labour in many: Whose absurdations stand naked unto every eye; Errours not able to deceive the Embleme of Justice, and need no Argue to descry them. Herein there surely wants expurgatory animadversions, whereby we might strike out great numbers of hidden qualities; and having once a serious and conceded list, we might with more encouragement and safe, ty, attempt their Reasons.

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THE THIRD BOOK:

Of divers popular and received Tenets concerning Animals, which examined, prove either false or dubious.

CHAP. I.

Of the Elephant. .

He first shall be of the Elephant, whereof there generally pasfeth an opinion it hath no joints; and this absurdity is seconded with another, that being unable to lie down, it fleepeth against a Tree; which the Hunters observing, do saw it almost asunder; whereon the Beast relying, by the fall of the Tree, falls allo down it felf, and is able to rife no more. Which conceit is not the daughter of later times, but an old and gray-headed error, even in the days of Aristotle, as he delivereth in his Book, De incessis Animaliam, and stands successively related by several other Authors: by Diodorus Siculus, Strabo, Ambrose, Cassiodore, Solinus, and many more. Now herein methinks men much forget themselves, not well considering the absurdity of such affertions.

For first, they affirm it hath no joints, and yet concede it walks and moves about; whereby they conceive there may be a progression or advancement made in Motion without inflexion of parts. Now all flow progression or Animals locomotion being (as Aristotle teacheth) per- sion is made formed tracts & pulfu; that is, by drawing on, or impelling forward in animals.

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Joint-like

fome part which was before in station, or at quiet; where there are no join sor flexures, neither can there be these actions. And this is true, not onely in Quadrupedes, Volatils, and Fishes, which have distinct and prominent Organs of Motion, Legs, Wings, and Fins; but in such also as perform their progression by the Trunk, as Serpents, Worms, and Leeches. Whereof though some want bones, and all extended articulations, yet have they arthritical Analogies, and by the motion of sibrous and musculous parts, are able to make progression. Which to conceive in bodies inflexible, and without all protrusion of parts, were to expect a Race from Hereules his pillars; or hope to behold the effects of Orpheus his Harp, when trees found joints, and danced after his Musick.

Again, While men conceive they never lie down, and enjoy not the position of rest, ordained unto all pedestrious Animals, hereby they imagine (what Reason cannot conceive) that an Animal of the vastest dimension and longest duration, should live in a continual motion, without that alternity and vicissitude of rest whereby all others continue; and yet must thus much come to pass, if we opinion they lye not down and enjoy no decumbence at all. For station is properly no rest, but one kind of motion, relating unto that which Physicians (from Galen) do name extensive or tonical; that is, an extension of the muscles and

Extensive or Tonical Mogion, what?

organs of motion maintaining the body at length or in its proper figure. Wherein although it feem to be unmoved, it is not without all Motion; for in this position the muscles are sensibly extended, and labour to support the body; which permitted unto its proper gravity, would fuddenly subside and fall unto the earth; as it happeneth in sleep, diseases, From which occult action and invisible motion of the and death. muscles in station (as Galen declareth) proceed more offensive lassinudes then from ambulation. And therefore the Tyranny of fome have tormented men with long and enforced station, and though Ixion and Sisiphus which always moved, do seem to have the hardest measure; yet was not Titius favoured, that lay extended upon Caucasus; and Tantalus suffered somewhat more then thirst, that stood perpetually in Hell. Thus Mercurialis in his Gymnasticks justly makes standing one kind of exercise; and Galen when we lie down, commends unto us middle figures, that is, not to lye directly, or at length, but somewhat infleated, that themuscles may be at rest; for such as he termeth Hypobolemaioi or figures, of excess, either shrinking up or stretching out, are wearisome politions, and fuch as preturb the quiet of those parts. Now various parts do variously discover these indolent and quiet positions, some in right knes, as the wrifts: some at right angles, as the cubit: others at oblique angles, as the fingers and the knees: all resting satisfied in postures of moderation, and none enduring the extremity of flexure or extension.

Moreover men herein do strangely forget the obvious relations of history, affirming they have no joints, whereas they dayly read of several

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actions which are not performable without them. They forget what is delivered by Xiphilinius, and also by Suetonius in the lives of Nero and Galba, that Elephants have been instructed to walk on ropes, in publick thews before the people. Which is not eafily performed by man, and requireth not only a broad foot, but a pliable flexure of joints, and commandible disposure of all parts of progression. They pass by that memorable place in Curtius, concerning the Elephant of King Porus, Indus qui Elephantem regebat, descendere eum ratus, more solito procumbere jussit in genua, cateri quoque (ita enim instituti erant) demisere corpora in terram. They remember not the expression of Oforius, when he speaks of Derebu gettie the Elephant presented to Leo the tenth, Pontificem ter genibus flexis, & Emanuelis, demisso corporis habitu venerabundus salutavit. But above all, they call not to mind that memorable shew of Germanicus, wherein twelve Elephants danced unto the found of Mulick, and after laid them down in the Tricliniums, or places of festival Recumbency.

They forget the Etymologie of the Knee, approved by fome Gram- rive from goods. marians. They difturb the position of the young ones in the womb: which upon extension of legs is not easily conceivable; and contrary unto the general contrivance of Nature. Nor do they consider the impossi-

ble exclusion thereof, upon extension and rigour of the legs.

Lastly, they forget or consult not experience, whereof not many years past, we have had the advantage in England, by an Elephant shewn in many parts thereof, not only in the posture of standing, but kneeling Whereby although the opinion at present he well and lying down. suppressed, yet from some strings of tradition, and fruitful recurrence of errour, it is not improbable, it may revive in the next generation agains. This being not the first that hath been seen in England; for (besides some others) as Polydore Virgil relateth, Lewis the French King fent one to Henry the third, and Emanuel of Portugal another to Leo the tenth into Italy, where notwithstanding the errour is still alive and epidemical, as with us.

The hint and ground of this opinion might be the grossand some- Round, Plant what Cylindrical composure of the legs, the equality and less perceptible lar-like, disposure of the joints, especially in the former legs of this Animal; they appearing when he standeth, like Pillars of slesh, without any evidence of articulation. The different flexure and order of the joints might also countenance the same, being not disposed in the Elephant, as they are in other quadrupedes, but carry a nearer conformity unto those of Man; that is, the bought of the fore-legs, not directly backward, but laterally and somewat inward; but the hough or suffraginous flexure behind rather outward. Somewhat different unto many other quadrupedes, as Horses, Camels, Deer, Sheep, and Dogs; for their fore-legs bend like our legs, and their hinder legs like our arms, when we move them to our shoulders. But quadrupedes oviparous, as Frogs.

Lizards 2

Lizards, Crocadiles, have their joints and motive flexures more analogoufly framed unto ours: and some among viviparous, that is, such thereof as can bring their fore-feet and meat therein unto their mouths, as most can do that have the clavicles or coller-bones; whereby their brests are broader, and their shoulders more asunder, as the Ape, the Monkey, the Squirrel and some others. If therefore any shall affirm the joints of Elephants are differently framed from most of other quadrupedes, and more obscurely and grofly almost then any, he doth herein no injury unto truth. But if a dicto fecundum quid ad dictum simpliciter, he affirmeth also they have no articulations at all, he incurs the controulment of reason, and cannot avoid the contradiction also of denfe.

As for the manner of their venation, if we consult historical experience, we shall find it to be otherwise then as is commonly presumed, by fawing away of Trees. The accounts whereof are to be feen at large in Johannes, Hugo, Edwardus Lopez, Garcias ab borto, Cadamustus,

Other concernments there are of the Elephant, which might admit of discourse; and if we should question the teeth of Elephants, that is,

and many more.

whether they be properly fo termed, or might not rather be called horns: it were no new enquiry of mine, but a Paradox as old as Oppianus. Whether as Pliny and divers fince affirm it, that Elephants are terrified, Myneget, lib. 2. and make away upon the grunting of Swine, Garcias ab horto may decide, who affirmeth upon experience, they enter their stalls, and live promifcuoully in the Woods of Malavar. That the lituation of the genitals is averse, and their copulation like that which some believe of Camels, as Pliny hathalfo delivered, is not to be received; for we have beheld that part in a different position; and their coition is made by superfaliency, like that of horses, as we are informed by some who have beheld them in that act. That some Elephants have not only written whole sentences, as Elian ocularly testifieth, but have also spoken, as Oppianus delivereth, and Christophorus a Costa particularly relateth; although it found like that of Achilles Horse in Homer, we do not conceive impossible. Nor beside the affinity of reason in this Animal any such intollerable incapacity in the organs of divers quadrupedes, whereby they might not be taught to speak, or become imitators of speech like Birds. Strange it is how the curiofity of men that have been active in the instruction of Bealts, have never fallen upon this artifice; and among those, many paradoxical and unheard of imitations, should not attempt to make one speak. The Serpent that spake unto Eve, the Dogs and Cats that usually speak unto Witches, might afford some encouragement. And fince broad and thick chops are required in Birds that speak, fince sips and teeth are also organs of speech; from these there is also an advantage in quadrupedes, and a proximity of reason in Elephants and Apes

above

Some Brutes tolerably well organized for speech and approach ng to acaton,

above them all. Since also an Echo will speak without any mouth at all, articulately returning the voice of man, by only ordering the vocal foirit in concave and hollow places; whether the musculous and motive parts about the hollow mouths of Beafts, may not dispose the paffing spirit into some articulate notes, seems a query of no great doubt.

CHAP. II.

of the Harfe.

He fecond Affertion, that an Horse hath no gall, is very general, nor only swallowed by the people, and common Farriers, but also received by good Veterinarians, and some who have laudably discoursed upon Horses. It feemeth also very ancient; for it is plainly set down Veterinarians by Aristotle, an Horse and all solid ungulous or whole hoosed animals or Farriers, have no gall; and the same is also delivered by Pliny, which notwithstanding we find repugnant unto experience and reason. For first, it calls in question the providence or wise provision of Nature; who not abounding in superfluities, is neither deficient in necessities. Wherein nevertheless there would be a main defect, and her improvision justly accusable; if such a feeding Animal, and so subject unto diseases from bilious causes, should want a proper conveyance for choler; or have no other receptacle for that humour then the Veins, and general mass of bloud.

It is again controllable by experience, for we have made some search and enquiry herein; encouraged by Absyrtus a Greek Author, in the time of Constantine, who in his Hippiatricks, obscurely affigneth the Medicine gall a place in the liver; but more especially by (arlo Ruini the Bono- equarianian, who in his Anatomia del Cavallo, hath more plainly described it, and in a manner as I found it. For in the particular enquiry into that part, in the concave or fimous part of the Liver, whereabout the Gall is usually seated in quadrupedes, I discover an hollow, long and membranous substance, of a pale colour without, and lined with Choler and Gall within; which part is by branches diffused into the lobes and several parcels of the Liver; from whence receiving the fiery superfluity, or cholerick remainder, by a manifest and open passage, it : conveyeth it into the dnodenum or upper gut, thence into the lower bowels: which is the manner of its derivation in Man and other Animals. And therefore although there be no eminent and circular follicle, .

no round bag or veficle which long containeth this humour : yet is there a manifest receptacle and passage of choler from the Liver into the Guts: : which being not fo thut up, or at least not fo long detained, as it is in

Choler the na aural glifter.

Horse to dung more often then many other, which considering the plentiful feeding, the largeness of the guts, and their various circumvo-Jution, was prudently contrived by providence in this Animal. For choler is the natural Glifter, or one excretion whereby Nature excludeth another; which descending daily into the bowels, extimulates those parts, and excites them unto expulsion. And therefore when this humour aboundeth or corrupteth, there succeeds oft-times a cholerica passio, that is, a sudden and vehement Purgation upward and downward : and when the passage of gall becomes obstructed, the body grows coffive, and the excrements of the belly white; as it happeneth

other Animals: procures that frequent excretion, and occasions the

in the Jaundice.

If any therefore affirm an Horse hath no gall, that is, no receptacle, or part ordained for the separation of Choler, or not that humour at all; he hath both sense and reason to oppose him. But if he faith it hath no bladder of Gall, and fuch as is observed in many other Animals, we shall oppose our sense, if we gain-lay him. Thus must Aristotle be made out when he denieth this part, by this distinction we may relieve Pling of a contradiction, who in one place affirming an Horse hath no gall, delivereth yet in another, that the gall of an Horse was accounted poison; and therefore at the facrifices of Horses in Rome, it was unlawful for the Flamen to touch it. But with more difficulty, or hardly at all is that reconcileable which is delivered by our Countryman, and received Veterinarian; whose words in his Master-piece, and Chapter of diseases from the Gall, are somewhat too strict, and scarce admit a Reconciliation. The fallacie therefore of this conceit is not unlike the former; A dicto secundum quid ad dictum simpliciter. Because they have not a bladder of gall, like those we usually observe in others, they have no gall at all. Which is a Paralogism not admittible: a fallacy that dwels not in a cloud, and needs not the Sun to scatter it.

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CHAP.

Of the Dove.

He third affertion is somewhat like the second, that a Dove or Pigeon hath no gall; which is affirmed from very great antiquity; for as Pierius observeth from this consideration the Egyptians did make it the Hieroglyphick of Meekness. It hath been averred by many holy Writers, commonly delivered by Postillers and Commentators; who from the frequent mention of the Dove in the Canticles, the precept of our Saviour, to be wife as Serpents, and innocent as Doves: and especially the appearance of the Holy Chost in the similitude of this Animal, have taken occasion to set down many affections of the Dove, and what doth most commend it, is, that it hath no gall. And hereof have made use not only Minor Divines, but Cyprian, Austin, Isidore, Beda, Ruperius, Fansenius, and many more.

Whereto not withstanding we know not how to assent, it being repugnant unto the Authority and positive determination of ancient Philosophy. The affirmative of Aristotle in his History of Animals is very plain, Fel aliis ventri, aliis intestino jungitur : Some have the gall adjoined to the guts, as the Crow, the Swallow, Sparrow, and the Dove; the same is also attested by Pliny, and not without some passion by Galen, who in his Book De Arra bile, accounts him ridiculous that denies it.

It is not agreeable to the constitution of this Animal, nor can we fo reafonably conceive there wants a Gall: that is, the hot and fiery humour in a body fo hot of temper, which Flegmor Melancholy could not effect. Now of what complexion it is, Julius Alexandrinus declareth, when Salubrium \$10 he affirmeth that some upon the vie thereof, have fallen into Feavers and Quinfies The temper of their Dung and intestinal Excretions do also confirm the fame; which Topically applied become a Phanigmus or Rubifying Medicine, and are of fuch fiery parts, that as we read in Galen, they have of themselves conceived fire, and burnt a house about them. And therefore when in the famine of Samaria (wherein the fourth part of a Cab of Pigeons dung was fold for five pieces of filver,) it is delivered by Josephus, that men made use hereof in stead of common Salt: although the exposition seem strange, it is more probable then many other. For that it containeth very much Salt, as beside the effects before expressed, is discernable by talte, and the earth of Columbaries or Dove-houses, so much desired in the artifice of Salt-petre. And to speak generally, the excrement of Birds hath more of Salt and acrimony, then that of other piffing animals. Now if because the Dove is of a mild and gentle nature, we cannot conceive

Whence the irafcible, whence the concupifible passions do most arife,

it in ould be of an not temper; our apprehensions are not distinct in the measure of constitutions, and the several parts which evidence such conditions. For the Irascible passions do follow the temper of the heart, but the concupiscible distractions the crass of the liver. Nowmany have hot livers, which have but cool and temperate hearts; and this was probably the temper of Paris, a contrary constitution to that of Ajax, and both but short of Medea, who seemed to exceed in either.

Laftly, it is repugnant to experience, for Anatomical enquiry disco. vereth in them a gall: and that according to the determination of Arifatle, not annexed unto the liver, but adhering unto the guts: not is the humour contained in smaller veins, or obscurer capillations, but in a vescicle, or little bladder, though some affirm it bath no bag at all. And therefore the Hieroglyphick of the Ægyptians, though allowable in the fense, is weak in the foundation: who expressing meekness and lenity by the portract of a Dove with a tail erected, affirmed it had no gall in the inward parts, but only in the rump, and as it were out of the body. And therefore also if they conceived their gods were pleased with the facrifice of this Animal, as being without gall, the ancient Heathens were furely mistaken in the reason, and in the very oblation. Whereas in the holocaust or burnt-offering of Moses, the gall was cast away: for as Ben Maimon instructeth, the inwards whereto the gall adhereth were taken out with the crop, according unto the Law: which the Priest did not burn, but cast unto the East, that is, behind his back, and readiest place to be carried out of the Sanctuary. And it they also conceived that for this reason, they were the Birds of Venue, and wanting the furious and discording part, were more acceptable unto the Deity of Love, they furely added unto the conceit, which was at first venereal: and in this Animal may be sufficiently made out from that conception.

Doves, the Birds of Ve.

The ground of this conceit is partly like the former, the obscure sinuation of the gall, and out of the liver, wherein it is commonly enquired. But this is a very injust illation, not well considering with what variety this part is seated in Birds. In some both at the stomach and the liver, as in the Capriceps; in some at the liver only, as in Cocks, Turkeys, and Rheasants; in others at the guts and liver, as in Hawks and Kites, in some at the guts alone, as Crows, Doves, and many more. And these perhaps may take up all the ways of situation, not only in Birds, but also other Animals; for what is said of the Anchovie, that answerable unto its name, it carrieth the gall in the head, is sather to be enquired. And though the discoloured particles in the skin of an Heron, be commonly termed Galls, yet is not this Animal described that the eyes of Tobias were cured by the gall of the sist Callyonimus, or Scorpius marinus, commended to that effect by Dioscorides, although that part

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were not in the liver, yet there were no reason to doubt that probability. And whatfoever Animal it was, it may be received without exception, when its delivered, the married couple as a testimony of future

concord, did cast the gall of the facrifice behind the Altar.

A strict and literal acception of a loofe and tropical expression was a fecond ground hereof. For while fome affirmed it had no gall, intending only thereby no evidence of anger or fury; others have construed it anatomically, and denied that part at all. By which illation we may infer, and that from facted Text, a Pigeon hath no heart; according to that expression, Factus est Ephraim ficut Columba seducta non habens Cor. Holea 7. And so from the letter of the Scripture we may conclude it is no mild, but a fiery and furious animal, according to that of Jeremy, Fatta eft Cap. 25. terra in desolationem à facie ira Columba : and again , Revertamer ad Cap. 46. terram nativitatis nostra à facie gladii Columba. Where notwithstanding the Dove is not literally intended; but thereby may be implied the Babylonians, whose Queen Semiramis was called by that name, and whose fuccessors did bear the Dove in their Standard. So is it proverbially faid, Formica sna bilis inest, babet & musta splenem; whereas we know Philosophy doubteth these parts, nor hath Anatomy so clearly discovered them in those insects.

If therefore any affirm'a Pigeon hath no gall, implying no more thereby then the lenity of this Animal, we shall not controvert his affirmation. Thus may we make out the affertions of ancient Writers, and fafely receive the expressions of Divines and worthy Fathers. But if by a transition from Rhetorick to Logick, be shall contend, it hath no such part or humour, he committeeth an open fallacy, and fuch as was probably first committed concerning Spanish Mares, whose swiftness tropically expresfed from their generation by the wind; might after be grofly taken, and

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CHAP IV.

of the Bever.

Hat a Bever to escape the Hunter, bites off his testicles or stones, is a Tenet very ancient; and hath had thereby advantage of propagation. For the same we find in the Hieroglyphicks of the Egy. ptians in the Apologue of Afop, an Author of great Antiquity, who logues of what lived in the beginning of the Persian Monarchy, and in the time of Cy. rue: the same is touched by Aristotle in his Ethicks, but seriously delivered by Alian, Pliny, and Solinus: the same we meet with in Tuve. nal, who by an handsome and Metrical expression more welcomly engrafts it in our junior Memories:

> imitatus Castora, qui se Eunuchum ipse facit, cupiens evadere damno. Testiculorum, adeo medecatum intelligit inquen.

it hath been propagated by Emblems: and some have been so bad Grammarians as to be deceived by the Name, deriving Castor à castrando, whereas the proper Latine word is Fiber, and Cafter but borrowed from the Greek, so called quasi pasus, that is, Animal ventricosum, from his

Iwaggy and prominent belly.

Herein therefore to speak compendiously, we first presume to affirm that from strict enquiry, we cannot maintain the evulsion or biting off any parts, and this is declarable from the best and most professed Wri.ers: for though some have made use, hereof in a Moral or Tropical way, yet have the professed Discoursers by silence deserted, or by experience rejected this affertion. Thus was it in ancient times discovered, and experimentally refuted by one Sestius a Physician, as it stands related by Pliny; by Dioscorides, who plainly affirms that this tradition is falle; by the discoveries of Modern Authors, who have expresly discoursed hereon, as Aldrovandus, Mathiolus, Gesnerus, Bellonius; by Olans Magnus, Peter Martyr, and others, who have described the manner of their Venations in America; they generally omitting this way of their escape, and have delivered several other, by which they are daily taken.

The original of the conceit was probably Hieroglyphical, which after became Mythological unto the Greeks, and fo fet down by Afop; and by process of tradition, stole into a total verity, which was but partially true, that is in its covert sense and Morality. Now why, they placed this invention upon the Bever (belide the Medicable and Merchantable com-

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modity of Castoreum, or parts conceived to be bitten away) might be the fagacity and wisdom of that Animal, which from the works it performs, and especially its Artifice in building, is very strange, and surely not to be matched by any other. Omitted by Plutarch, De solution Animalium, but might have much advantaged the drift of that Discourse.

If therefore any affirm a wife man should demean himself like the Bever, who to escape with his life, contemneth the loss of his genitals, that is in case of extremity, not strictly to endeavour the preservation of all, but to fit down in the enjoyment of the greater good, though with the detriment and hazard of the leffer; we may hereby apprehend a real and useful Truth. In this latitude of belief, we are content to receive the Fable of Hippomanes, who redcemed his life with the loss of a Golden Ball; and whether true or false, we reject not the Traggedy of Absyrtus, and the dispersion of his Members by Medea, to perplex the pursuit of her Father. But if any shall positively assirm this act, and cannnot believe the Moral, unless he also credit the Fable; he is surely greedy of delusion, and will hardly avoid deception in theories of this Nature. The Error therefore and Alogy in this opinion, is worse then in the last; that is, not to receive Figures for Realities, but expect a verity in Apologues; and believe, as ferious affirmations, confessed and studied Fables.

Again, If this were true, and that the Bever in chase makes some divulsion of parts, as that which we call Castoreum; yet are not the same to be termed Testicles or Stones; for these Cods or Follicles are sound in both Sexes, though somewhat more protuberant in the Male. There is hereto no derivation of the seminal parts, nor any passage from hence, unto the Vessels of Ejaculation: some perforations onely in the part it self, through which the humour included doth exudate: as may be observed in such as are fresh, and not much dried with age. And lassly, The Testicles properly so called, are of a lesser magnitude, and scated inwardly upon the loins: and therefore it were not only a fruitless attempt, but impossible act, to Eunuchate or castrate themselves: and might be an hazardous practice of Art, if at all attempted by others.

Now all this is confirmed from the experimental Testimony of five very memorable Authors: Bellonius, Gesnerus, Amatus, Rondeletius, and Mathiolus: who receiving the hint hereof from Rondeletius in the Anatomy of two Bevers, did find all true that had been delivered by him, whose words are these in his searned Book De Piscibus: Fibri in inquinibus geminos tumores babent, utrinque vnicum, ovi Anserini magnitudine, inter hos est mentula in maribus, in seminis pudendum, hi tumores testes non sunt, sed folliculi membrana contesti, in quorum medio singuli sunt meatus è quibus exudat siquor pinguis & cerosus, quem ipse Castor sape admoto ore sambit & exugit, postea veluti oleo, corporis,

corporis partes oblinet; Hos tumores testes non esse bine maxime colliquing, quod ab illis nulla est ad mentalam via neque ductus quo humor in mentala miatum dirivetur. E foras emittatur; praterea qued testes intus reperintur, cosamunores Moscho animali inesse puto, è quibus odoratum illud plus imanas. Then which words there can be no plainer, nor more evidently discovering the impropriety of this appellation. That which is included in the cod or visible bag about the groin, being not the Testicle, or any spermatical part; but rather a collection of some superfluous matter dessowing from the body, especially the parts of nutrition as unto their proper emunctories; and as it doth in Musk and Civet Cats, though in a different and offensive odour; proceeding partly from its food, that being especially Fish; whereof this humour may be a garous

excretion and olidous separation.

Most therefore of the Moderns before Rondeletius, and all the Ancients excepting Sestins, have misunderstood this part, conceiving Caforeum the Telticles of the Bever; as Dioscorides, Galen, Loineta, Brins, and others have pleased to name it. The Egyptians also failed in the ground of their Hieroglyphick, when they expressed the punishment of Adultery by the Bever depriving himfelt of his reflicles, which was amongst them the penalty of such incontinency. Nor is Etims perhaps, too strictly to be observed, when he prescribeth the stones of the Otter, or River-dog, as succedaneous unto Castoreum. But most inexcusable of all is Pliny; who having before him in one place the experiment of Seltius against it, fets down in another, that the Bevers of Pontus bite off their testicles: and in the same place affirmeth the like of the Hyena. Which was indeed well joined with the Beyer, as having also a bag in those parts; if thereby we understand the Hyena odorata, or Civet Cat, as is delivered and graphically described by Castellus.

Caffellus de Hyena odorifora.

Now the ground of this mistake might be the resemblance and situation of these tumours about those parts, wherein we observe the testicles in other animals. Which notwithstanding is no well founded illation, for the testicles are defined by their office, and not determined by place or situation; they having one office in all, but different seats in many. For beside that, no Serpent, or Fishes oviparous, that neither biped not quadruped oviparous have testicles exteriourly, or prominent in the groin; some also that are viviparous contain these parts within, as beside this Animal, the Elephant and the Hedg-hog.

If any therefore shall term these testicles, intending metaphorically, and in no strict acception; his language is tolerable, and offends our ears no more then the Tropical names of Plants: when we read in Herbals, of Dogs, Fox, and Goat-stones. But if he insistest thereon, and maintaineth a propriety in this language: our discourse hath overthrown his affertion, nor will Logick permit his illation; that is,

from

from things alike, to conclude a thing the same; and from an accidental convenience, that is a fimilitude in place or figure, to infer a specifical congruity or substantial concurrence in Nature.

CHAP. V.

Of the Badger.

"Hat a Brock or Badger hath the legs on one fide shorter then of the other, though an opinion perhaps not very ancient, is yet very general; received not only by Theorists and unexperienced believers, but affented unto by most who have the opportunity to behold and hunt Which notwithstanding upon enquiry I find repugnant unto the three Determinators of Truth, Authority, Sense, and Reason. For first, Albertus Magnus speaks dubiously, confessing he could not confirm the verity hereof; but Aldrovandus plainly affirmeth, there can be no fuch inequality observed. And for my own part, upon indifferent enquiry, I cannot discover this difference, although the regardable fide be defined, and the brevity by most imputed unto the left.

Again, It seems no easie affront unto Reason, and generally repugnant unto the course of Nature; for if we survey the total set of Animals, we may in their legs, or Organs of progression, observe an equality of length, and parity of Numeration; that is, not any to have an odd legg, or the supporters and movers of one side not exactly answered by the other. Although the hinder may be unequal unto the fore and middle legs, as in Frogs, Locusts, and Grashoppers; or both unto the middle, as in some Beetles and Spiders, as is determined by Aristotle, De incessur De incessa Animalium. Perfect and viviparous quadrupeds, so standing Animalium, in their polition of pronenels, that the oppolite joints of Neighbourlegs confift in the same plane; and a line descending from their Navel interfects at right angles the axis of the Earth. It happeneth often I. confess that a Lobster hath the Chely or great claw of one side longer then the other; but this is not properly their leg, but a part of apprehension, and whereby they hold or seiz upon their prey; for the legs and proper parts of progression are inverted backward, and stand in a position opposite unto thefe.

Lastly, The Monstrosity is ill contrived, and with some disadvantages the shortness being affixed unto the legs of one side, which might have been more tolerably placed upon the thwart or Diagonial Movers. Diagonien, a For the progression of quadrupeds being performed per Diametrum, fire diawn that is the cross legs moving or resting together, so that two are always angles, in motion, and two in station at the same time; the brevity had been

more tolerable in the cross legs. For then the Motion and station had been performed by equal legs; whereas herein they are both performed by unequal Organs, and the imperfection becomes discoverable at every hand.

CHAP. VI.

Of the Bear.

Hat a Bear brings forth her young informous and unshapen, which she fashioneth after by licking them over, is an opinion not only vulgar, and common with us at present: but hath been of old delivered by ancient Writers. Upon this foundation it was an Hieroglyphick with the Egyptians: Aristotle seems to countenance it; Solinus, Pliny, and Elian directly affirm it, and Ovid smoothly delivereth it:

Neocatulus partu quem reddidit ursa recenti Sed male viva caro est, lambendo maser in artus Ducit, & in formam qualem cupit ipsa reducit.

Which notwithstanding is not only repugnant unto the sense of every one that shall enquire into it, but the exact and deliberate experiment of three Authentick Philosophers. The first of Mathiolus in his Comment on Dioscorides, whose words are to this effect. In the Valley of Anania about Trent, in a Bear which the Hunters eventerated or opened, I beheld the young ones with all their parts distinct: and not without thape, as many conceive; giving more credit unto Aristotle and Pliny, then experience and their proper senses. Of the same affurance was Julius Scaliger in his Exercitations, Vrsam fatus informes potius ejicere, quam parere, si vera dicunt, quos postea linctu effingat: Quid hujusce fabula authoribus fidei habendum ex hac historia cognosces; In nostris Alpibus venatores fatam Ursam cepere, dissecta ea fatus plane formatus intus inventus est. And lastly, Aldrovandus who from the testimony of his own eyes affirmeth, that in the Cabinet of the Senate of Bononia, there was preserved in a Glass a Cub taken out of a Bear perfectly formed, and compleat in every part.

It is moreover injurious unto Reason, and much impugneth the course and providence of Nature, to conceive a birth should be ordained before there is a formation. For the conformation of parts is necessarily required, not onely unto the pre-requisites and previous conditions of birth, as Motion and Animation: but also unto the parturition or very birth it self: Wherein not only the Dam, but the younglings play their parts; and the cause and act of exclusion proceedeth from them both.

For

For the exclusion of Animals is not meerly passive like that of Figgs, nor the total action of delivery to be imputed unto the Mother : but the first attempt beginneth from the Infant: which at the accomplished period attempteth to change his Mansion: and strugling to come forth, dilaceraces and breaks those parts which restrained him before.

Beside (what few take notice of) Men hereby do in an high measure vilifie the works of God, imputing that unto the tongue of a Beaft, which is the strangest Artifice in all the acts of Nature; that is the for. Formation in mation of the Infant in the Womb, not only in Mankind, but all vivi- the Marrix, Wherein the plastick or formative faculty, from matparous Animals. ter appearing Homogeneous, and of a fimilary substance, ereceth ture. Bones, Membranes, Veins, and Arteries: and out of these contriveth every part in number, place, and figure, according to the law of its species. Which is fo far from being fashioned by any outward agent, that once omitted or perverted by a flip of the inward Phidias, it is not reducible by any other whatfoever. And therefore Mire me plasmaverunt manus tue, though it originally respected the generation of Man, yet is it appliable unto that of other Animals; who entring the Womb in bare and simple Materials, return with distinction of parts, and the perfect breath of life. He that shall consider these alterations without, must needs conceive there have been strange operations within; which to behold, it were a spectacle almost worth ones beeing, a sight beyond all; except that Man had been created first, and might have seen the flew of five days after.

Now as the opinion is repugnant both unto sense and Reason, so hath it probably been occasioned from some slight ground in either. Thus in regard the Cub comes forth involved in the Chorion, a thick and tough Membrane obscuring the formation, and which the Dam doth after bite and tear afunder; the beholder at first fight conceives it a rude and informous lump of flesh, and imputes the ensuing shape unto the Mouthing of the Dam; which addeth nothing thereunto, but only draws the curtain, and takes away the vail which concealed the Piece before. And thus have some endeavoured to enforce the same from Reason; that is, the small and slender time of the Bears gestation, or going with her young; which lasting but few days (a Month some say) the exclusion becomes precipitous, and the young ones consequently informous; according to that of Solinus, Trigesimus dies interum liberat ursa; unde evenit ut pracipitata facunditas informes creet partus. But this will overthrow the general Method of Nature in the works of generation. For therein the conformation is not only antecedent, but proportional unto the exclusion; and if the period of the birth be short, the term of conformation will be as sudden also. There may I confess from this narrow time of gestation ensue a Minority or smalness in the exclusion; but this however inferreth no informity, and it still receiveth the Name

Excums.

of a natural and legitimate birth; whereas if we affirm a total informity, it cannot admit so forward a termas an Abortment, for that supposeth conformation. So we must call this constant and intended act of Nature, a slip or effluxion, that is an exclusion before conformation: before the birth can bear the name of the Parent, or be so much as properly called an Embryon.

CHAP. VII.

Of the Basitisk.

Any Opinions are passant concerning the Basilisk or little King of Serpents, commonly called the Cockatrice: fome affirming, others denying, most doubting the relations made hereof. What therefore in these incertainties we may more safely determine: that such an Animal there is, if we evade not the testimony of Scripture and humane Writers, we cannot fafely deny. So is it faid Pfalm ot. Super Afpidem & Basiliscum ambulabis, wherein the Vulgar Translation retaineth the Word of the Septuagint, using in other places the Latine expression Regulus, as Proverbs 23. Mordebit ut coluber, & ficut Regulus venena diffundet : and feremy 8. Ecce ego mittam vobis serpentes Regulos, &c. That is, as ours translate it, Behold I will fend Serpents, Cockatrices among you which will not be charmed, and they shall bite you. And as for humane Authors, or fuch as have discoursed of Animals, or Poisons, it is to be found almost in all : in Dioscorides, Galen, Pliny, Solinus Elian, Atius, Avicen, Ardoynus, Grevinus, and many more. In Aristotle I confess we find no mention thereof, but Scaliger in his Comment and enumeration of Serpents, hath made supply; and in his Exercitations delivereth that a Basilisk was found in Rome, in the days of Leo the fourth. The like is reported by Sigonius; and some are so far from denying one, that they have made several kinds thereof: for such is the Catoblepas of Pliny conceived to be by some, and the Dryinus of Atius by others.

But although we deny not the existence of the Basilisk, yet whether we do not commonly mistake in the conception hereof, and call that a Basilisk which is none at all, is surely to be questioned. For certainly that which from the conceit of its generation we vulgarly call a Cockatrice, and wherein (but under a different name) we intend a formal Identity and adequate conception with the Basilisk; is not the Basilisk of the Ancients, whereof such wonders are delivered. For this of ours is generally described with legs, wings, a Serpentine and winding tail, and a crist or comb somewhat like a Cock. But the Basilisk of elder times

was a proper kind of Serpent, not above three palms long, as some account; and differenced from other Serpents by advancing his head, and some white marks or coronary spots upon the crown, as all authentick Writers have delivered.

Nor is this Cockatrice only unlike the Basilisk, but of no real shape in Nature; and rather an Hieroglyphical fansie, to express different intentions, set forth in different fashions. Sometimes with the head of a Man, sometime with the head of an Hawk, as Pierius hath delivered; and as with addition of legs the Heralds and Painters still describe it. Nor was it only of olda symbolical and allowable invention, but is now become a manual contrivance of Art, and artificial imposture; whereof besides others, Scaliger hath taken notice : Basilisci formam mentiti sunt vulgo Gallinaceo similem, & pedibus binis; neque enim absimiles sunt cateris serpentibus, nisi macula quasi invertice candida, unde illi nomen Regium; that is, men commonly counterfeit the form of a Basilisk with another like a Cock, and with two feet; whereas they differ not from other ferpents, but in a white speck upon their Crown. Now although in some manner it might be counterfeited in Indian Cocks, and flying Serpents, yet is it commonly contrived out of the skins of Thornbacks, Scaits, or Maids, as Aldrovand hath observed, and also graphically described in his By way of fiexcellent Book of Fishes; and for satisfaction of my own curiosity I gate. have caused some to be thus contrived out of the same Fishes.

Nor is onely the existency of this animal considerable, but many things delivered thereof, particularly its poison and its generation. Concerning the first, according to the doctrine of the Ancients, men still affirm, that it killeth at a distance, that it poisoneth by the eye, and by priority of vision. Now that deleterious it may be at some distance; and destru- Destructive. ctive without corporal contaction, what uncertainty foever there be in the effect, there is no high improbability in the relation. For if Plagues or pestilential Atoms have been conveyed in the Air from different Regions, if men at a distance have infected each other, if the shadows of some trees be noxious, if Torpedoes deliver their opium at a distance, and stupifie beyond themselves; we cannot reasonably deny, that (beside our gross and restrained poisons requiring contiguity unto their actions) there may proceed from fubtiller feeds, more agile emanations, which contemn those Laws, and invade at distance unexpected.

That this venenation shooteth from the eye, and that this way a Bafilisk may empoison, although thus much be not agreed upon by Authors, some imputing it unto the breath, others unto the bite, it is not a thing impossible. For eyes receive offensive impressions from their Effluxion of objects, and may have influences destructive to each other. For the vi- corporeal spefible species of things strike not our senses immaterially, but-streaming in cies. corporal raies, do carry with them the qualities of the object from whence they flow, and the medium through which they pass. Thus

li k kills at diftance.

through a green or red Glass all things we behold appear of the same How the Bali- colours; thus fore eyes affect those which are found, and themselves also by reflection, as will happen to an inflamed eye that beholds it felf lone in a Glus; thus is fascination made out, and thus also it is not impossible, what is affirmed of this animal, the visible rayes of their eyes carry. ing forth the subtilest portion of their poilon, which received by the eve of man or beaft, infecteth first the brain, and is from thence communicated unto the heart.

> But lastly, That this destruction should be the effect of the first be. holder, or depend upon priority of aspection, is a point not easily tobe granted, and very hardly to be made out upon the principles of Ariffolic. Albazen, Vitello, and others, who hold that fight is made by Reception, and not by extramission; by receiving the raies of the object into the eye, and not by fending any out. For hereby although he behold a man first, the Basilisk should rather be destroyed, in regard he first receiveth the rayes of his Antipathy, and venomous emissions which objectively move his fense; but how powerful soever his own poison be, it invadeth not the fense of man, in regard he beholdeth him not. And therefore this conceit was probably begot by such as held the opinion of fight by extramission; as did Pythagoras, Plato, Empedocles, Hipparchus, Galen, Ma: crobius, Proclus, Simplicius, with most of the Ancients, and is the postulate of Euclide in his Opticks, but now sufficiently convicted from obfervations of the Dark Chamber.

The genera. tion of the Cocks egg.

Ovum Cente. ise very little onc.

As for the generation of the Bafilisk, that it proceedeth from a Cocks egg hatched under a Toad or Serpent, it is a conceit as monstrous as the brood it felf. For if we should grant that Cocks growing old, and unable for emission, amass within themselves some seminal matter, which may after conglobate into the form of an egg, yet will this substance be unfruitful. As wanting one principle of generation, and a commixture of both fexes, which is required unto production, as may be observed in the eggs of Hens not trodden; and as we have made trial in some which are termed Cocks eggs. It is not indeed impossible that from ninum, or the the sperm of a Cock, Hen, or other Animal, being once in putrescence, last egg, which either from incubation or otherwise, some generation may ensue, not univocal and of the same species, but some imperfect or monstrous production, even as in the body of man from putrid humours, and peculiar ways of corruption; there have succeeded strange and unseconded shapes of worms; whereof we have beheld some our selves, and read of others in medical observations. And so may strange and venomous Serpents be several ways engendered; but that this generation should be be regular, and alway produce a Basilisk, is beyond our affirmation, and we have good reason to doubt.

Again, It is unreasonable to ascribe the equivocacy of this form unto the hatching of a Toad, or imagine that divertifies the production. For

Incuba-

Incubation alters not the species, nor if we observe it, so much as coneurs-either to the sex or colour: as appears in the eggs of Ducks or Partridges hatched under a Hen, there being required unto their exclusion
only a gentle and continued hear: and that not particular or confined
unto the species or parent. So have I known the seed of Silk-worms
hatched on the bodies of women: and Pliny reports that Livia the wise
of Augustus hatched an egg in her bosome. Nor is only an animal
heat required hereto, but an elemental and artificial warmth will suffice a
for as Diodorus delivereth, the Agyptians were wont to hatch their eggs
in Ovens, and many eye-witnesses consirm that practice unto this day.
And therefore this generation of the Busilisk, seems like that of Castor
and Helena; he that can credit the one, may easily believe the other:
that is, that these two were hatched out of the egg which Jupiter in the
form of a Swan, begat on his Mistress Leda.

The occasion of this conceit might be an Ægyptian tradition concering the Bird Ibis: which after became transferred unto Cocks. For an
opinion it was of that Nation, that the Ibis feeding upon Serpents, that
venomous food so inquinated their oval conceptions, or eggs within their
bodies, that they sometimes came forthin Serpentine shapes, and therefore they always brake their eggs, nor would they endure the Bird to sit
upon them. But how causeless their fear was herein, the daily incubation of Ducks, Pea-hens, and many other testifie, and the Stork mighthave informed them; which Bird they honoured and cherished, to destroy

their Sepents.

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That which much promoted it, was a misapprehension in holy Scripture upon the Latine translation in Esa. 51. Ova aspidum ruperum; & telas Aranearum texmerunt, qui comedent de ovis eorum morietur, & quod confotum est; erumpet in Regulum. From whence notwithstanding, beside the generation of Serpents from eggs, there can be nothing concluded; and what kind of Serpents are meant, not easie to be determined, for Translations are vere very different: Tremellius rendering the Asp Hæmorrhous, and the Regulus or Basiliska Viper, and our translation for the Asp sets down a Cockatrice in the Text, and an Adder in the

margin,

Another place of Esay dothalso seem to countenance it, Chap.14. No.
Lateris Philistea quoniam diminuta est virga percussoris tui, do radice enimcolubri egredietur Regulus, & semen ejus absorbens volucrem; which ours
somewhat savourably rendereth; Out of the Serpents Root shall come forth
a Cockatrice, and his fruit shall be a siery flying Serpent. But Tremellius,
a radice Serpentis prodit Hamorrhous, & fruetus illius praster volans; wherein the words are different, but the sense is still the same; for therein are
siguratively intended Uzziah and Ezechias; for though the Philistines
had escaped the minor Serpent Uzziah, yet from his stock a siercer Snake
should arise, that would more terribly sting them, and that was Ezechius.

But.

But the greatest promotion it hath received from a misunderstanding of the Hieroglyphical intention. For being conceived to be the Lord and King of Serpents, to awall others, nor to be destroyed by any; the Ægyptians hereby implied Eternity, and the awful power of the supreme Deitie: and therefore described acrowned Asp or Basilisk upon the heads of their gods. As may be observed in the Bembine Table, and other Ægyptian Monuments.

CHAP. VIII.

of the Wolf.

Such a Story as the Basilick is that of the Wolf concerning priority of vision, that a man becomes hoarse or dumb, if a Wolf have the advantage first to eye him. And this is a plain language affirmed by Plyny: In Italia ut creditur, Luporum visus est noxius, vocemque homini, quem prius contemplatur adimere; so is it made out what is delivered by Theocritus, and after him by Virgil:

---- Vox quoque Mærim Jam fugit ipsa, Lupi Mærim videre priores.

Thus is the Proverb to be understood, when during the discourse, if the party or subject interveneth, and there ensueth a sudden silence, it is usually said, Lupus est in fabula. Which conceit being already convicted, not only by Scaliger, Riolanus, and others; but daily consutable almost every where out of England, we shall not further resute.

The ground or occasional original hereof, was probably the amazement and sudden silence the unexpected appearance of Wolves do often put upon Travellers; not by a supposed vapour, or venomous emanation, but a vehement fear which naturally proceedeth obmutescence; and sometimes irrecoverable silence. Thus Birds are silent in presence of an Hawk, and Pliny saith that Dogs are mute in the shadow of an Hixua. But thus could not the mouths of worthy Martyrs be silenced, who being exposed not onely unto the eyes, but the merciless teeth of Wolves, gave loud expressions of their faith, and their holy clamours were heard as high as Heaven.

That which much promoted it beside the common Proverb, was an expression in Theocritus, a very ancient Poet, of φθίτζη λύκον άδις Edere non poteris vocem, Lycus est tibi visus; which Lycus was Rival unto another,

and suddenly appearing stopped the mouth of his Corrival: now Lycus fignifying also a Wolf, occasioned this apprehension; men taking that appellatively, which was to be understood properly, and translating the genuine acception. Which is a fallacy of Æquivocation, and in some opinions begat the like conceit concerning Romulus and Remus, that they were softered by a Wolf; the name of the Nurse being Lupa, and sounded the Fable of Europa, and her carriage over Sea by a Bull, because the Ship or Pilots name was Taurus. And thus have some been startled at the Proverb, Bos in lingua, consusedly apprehending how a man should be said to have an Oxe in his tongue, that would not speak his mind; which was no more then that a piece of money had silenced him: for by the Oxe was onely implied a piece of coin stamped with that sigure, first currant with the Athenians, and after among the Romans.

CHAP. IX.

Of the Deer.

The common Opinion concerning the long life of Animals, is very ancient, especially of Crows, Choughs and Deer; in moderate accounts exceeding the age of man, in some the days of Nestor, and in others surmounting the years of Artephius or Methaselah. From whence Antiquity hath raised proverbial expressions, and the real conception of their duration, hath been the Hyperbolical expression of many others. From all the rest we shall single out the Deer, upon concession a long-lived Animal, and in longavity by many conceived to attain unto hundreds; wherein permitting every man his own belief, we shall our selves crave liberty to doubt, and our reasons are these en-

fuing.

The first is that of Aristotle, drawn from the increment and gestation of this Animal, that is, its sudden arrivance unto growth and maturity, and the small time of its remainder in the Womb. His words in the translation of Scaliger are these; De ejus vita longitudine fabulantur; neque enim aut gestatio ant incrementum hinnulorum ejusmodi sunt, ut prassent argumentum longavi animalis; that is, Fables are raised concerning the vivacity of Deer; for neither are their gestation or increment, such as may afford an argument of long life. And these, saith Scaliger, are good Mediums conjunctively taken, that is, not one without the other. For of Animals viviparous such as live long, go long with young, and attain but slowly to their maturity and stature. So the Horse that liveth above thirty, arriveth unto his stature about six years, and remaineth

above ten moneths in the womb; so the Camel that liveth unto sifty, goeth with young no less then ten moneths, and ceaseth not to grow before seven; and so the Elephant that liveth an hundred, beareth its young above a year, and arriveth unto perfection at twenty. On the contrary, the Sheep and Goat, which live but eight or ten years, go but sive moneths, and attain to their perfection at two years: and the like proportion is observable in Cats, Hares, and Conies. And so the Deer that endureth the womb but eight moneths, and is compleat at six years, from the course of Nature, we cannot expect to live an hundred; nor in any proportional allocance much more then thirty. As having already passed two general motions observable in all animations, that is, its beginning and encrease; and having but two more to run thorow, that is, its state and declination; which are proportionally set out by Nature in every skind; and naturally proceeding admit of inference from each other.

The other ground that brings its long life into question, is the immoderate falacity, and almost unparallel'd excess of venery, which every September may be observed in this Animal: and is supposed to shorten the lives of Cocks, Partridges, and Sparrows. Certainly a confessed and undeniable enemy unto long evity, and that not only as a fign in the complexional defire and impetuofity, but also as a cause in the frequent act, or iterated performance thereof. For though we confent not with that Philosopher, who thinks a spermatical emission unto the weight of one drachm, is aquivalent unto the effusion of fixty ounces of bloud; yet confidering the exolution and languor enfuing that act in fome, the extenuation and marcour in others, and the visible acceleration it maketh of age in most: we cannot but think it much abridgeth our days. Although we also concede that this exclusion is natural, that Nature it self will find a way hereto without either act or object: And although it be placed among the fix Non-naturals, that is, fuch as neither naturally constitutive, nor meerly destructive, do preserve or destroy according unto circumstance: yet do we sensibly observe an impotency or total privation thereof, prolongeth life: and they live longest in every kind that exercise it not at all. And this is true not only in Eunuch's by Nature, but Spadoes by Art: for castrated Animals in every species are longer lived then they which retain their virilities. For the generation of bodies is not meerly effected as some conceive, of souls, that is, by Irradiation, or answerably unto the propagation of light, without its proper diminution: but therein a transmission is made materially from some parts, with the Idea of every one: and the propagation of one, is in a

Eunuchs and gelded creaduces generally longerlived.

From the parts strict acception, some minoration of another. And therefore also that of generation axiom in Philosophy, that the generation of one thing, is the corruption of another: although it be substantially true concerning the form and matter, is also dispositively verified in the efficient or producer.

As for more sensible arguments, and such as relate unto experiment:

from

from these we have also reason to doubt its age, and presumed vivacity; for where long life is natural, the marks of age are late : and when they appear, the journey unto death cannot be long. Now the age of Deer (as Aristotle not long ago observed) is best conjectured, by view of the horns and teeth. From the horns there is a particular and annual account unto fix years: they arising first plain, and so successively branching: after which the judgment of their years by particular marks becomes uncertain. But when they grow old, they grow less branched, and first do lose their auwings, or propugnacula; that is, their browantlers, or lowest furcations next the head, which Aristotle faith the young ones use in fight: and the old as needless, have them not at all. The same may be also collected from the loss of their Teeth, whereof in old age they have few or none before in either jaw. Now these are infallible marks of age, and when they appear, we must confess a declination: which notwithstanding (as men inform us in England, where observations may well be made,) will happen between twenty and thirty. As for the bone, or rather induration of the Roots of the arterial vein and great artery, which is thought to be found only in the heart of an old Deer, and therefore becomes more precious in its Rarity; it is often found in Deer much under thirty, and we have known some affirm they have found it in one of half that age. And therefore in that account of Pliny, of a Deer with a Collar about his neck, put on by Alexander the Great, and taken alive an hundred years after, with other relations of this nature, we much suspect imposture or mistake. And if we grant their verity, they are but fingle relations, and very rare contingencies in individuals, not affording a regular deduction upon the species. For though Ulysses his Dog lived unto twenty, and the Athenian Mule unto fourscore, yet do we not measure their days by those years, or usually say, they live thus long. Nor can the three hundred years of John of times, or Nefter, overthrow the affertion of Mofes, or afford a Pfalm 90. reasonable encouragement beyond his septuagenary determination.

The ground and authority of this conceit was first Hierogliphical, the Agyptians expressing long with by this Animal; but upon what uncertainties, and also convincible falsities they often erected such Emblems, we have elfewhere delivered. And if that were true which Ariftotle de- Hiffer animali livers of his time, and Pliny was not afraid to take up long after, the lib. 8. Egyptians could make but weak observations herein; for though it be faid that Aneas feasted his followers with Venison, yet Aristotle affirms that neither Deer nor Boar were to be found in Africa. And how far they miscounted the lives and duration of Animals, is evident from their conceit of the Crow, which they prefume to live five hundred years; and from the lives of Hawks, which (as Elian delivereth) the Egyptians do reckon no less then at seven hundred.

The second which led the conceit unto the Grecians, and probably defcended

scended from the Egyptians was Poetical; and that was a passage of He fed; thus rendred by Ansonius.

Ter binos deciesque novem super exit in annos, Justa senescentum quos implet vita virorum, Hos novies superat vivendo garrula cornix, Et quater egreditur cornicis secula cervus, Alipidem cervum ter vincit servus.

To ninety fix the life of man ascendeth,
Nine times as long that of the Chough extendeth,
Four times beyond the life of Deer doth go,
And thrice is that surpassed by the Crow.

So that according to this account, allowing ninety fix for the age of Man, the life of a Deer amounts unto three thousand four hundred fifty fix. A conceit so hard to be made out, that many have deferted the common and literal construction. So Theon in Aratus would have the number of nine not taken strictly, but for many years. In other opinions the compute fo far exceedeth the truth, that they have thought it more probable to take the word Genea, that is, a generation confifting of many years, but for one year, or a fingle revolution of the Sun; which is the remarkable measure of time, and within the compass whereof we receive our perfection in the womb. So that by this conftruation, the years of a Deer should be but thirty six, as is discoursed at large in that Tract of Plutarch, concerning the ceffation of Oracles; and whereto in his discourse of the Crow, Aldrovandus also inclineth. Others not able to make it out, have rejected the whole account as may be observed from the words of Pliny, Hesiodus qui primus aliquid de longavitate vita prodidit, fabulose (reor) multa de hominum avo referens, cornici novem nostras attribuit atates, quadruplum ejus cervis, id tripliplicatum corvis, & reliqua fabulosius de Phænice & nymphis. And this how slender loever, was probably the strongest ground Antiquity had for this longavity of Animals; that made Theophrastus expostulate with Nature concerning the long life of Crows; that begat that Epithete of Deer in Oppianus, and that expression of Juvenal,

Torganigor D.

- Longa & cervina senectus.

The third ground was Philosophical, and founded upon a probable Reason in Nature, that is, the defect of a Gall, which part (in the option of Aristotle and Pliny) this Animal wanted, and was conceived a cause and reason of their long life: according (say they) as it happeneth unto some few men, who have not this part at all. But this affertion is first

first defective in the verity concerning the Animal alledged: for though it be true, a Deer hath no Gall in the Liver like many other Animals; yet hath it that part in the Guts, as is discoverable by taste and colours and therefore Pliny doth well correct himself, when having affirmed before it had no Gall, he after saith, some hold it to be in the guts; and that for their bitterness, dogs will refuse to eat them. The affertion is also deficient in the verity of the Induction or connumeration of other Animals conjoined herewith, as having also no Gall; that is, as Pliny accounteth, Equi, Muli, &cc. Horses, Mules, Asses, Deer, Goats, Boars, Camels, Dolphins, have no Gall. In Dolphins and Porpoces I consess I could find no Gall. But concerning Horses, what truth there is herein we have declared before; as for Goats we find not them without it; what Gall the Camel hath, Aristotle declareth: that Hogs also have it, we can affirm; and that not in any obscure place, but in the Liver, even as it is seated in man.

That therefore the Deer is no short-lived Animal, we will acknow-ledge: that comparatively, and in some sense long-lived we will concede; and thus much we shall grant if we commonly account its days by thirty six or forty: for thereby it will exceed all other cornigerous Animals. But that it attaineth unto hundreds, or the years delivered by Authors, since we have no authentick experience for it, since we have reason and common experience against it, since the grounds are false and fabulous

which do establish it : we know no ground to assent.

Concerning Deer there also passeth another opinion, that the Males thereof do yearly lofe their pizzel. For men observing the decidence of their horns, do fall upon the like conceit of this part, that it annually rotteth away; and successively reneweth again. Now the ground hereof was furely the observation of this part in Deer after immoderate venery. and about the end of their Rut, which sometimes becomes so relaxed and pendulous, it cannot be quite retracted: and being often befet with flies, it is conceived to rot, and at last to fall from the body. But herein experience will contradict us: for Deer which either die or are killed at that time, or any other, are always found to have that part entire. And reason will also correct us: for spermatical parts, or such as are framed from the feminal principles of parents, although homogeneous or fimilary, will not admit a Regeneration, much less will they receive an integral restauration, which being organical and instrumental members, confift of many of those. Now this part, or Animal of Plato, containeth not only fanguineous and reparable particles: but is made up of veins, nerves, arteries, and in some Animals, of bones: whose reparation is beyond its own fertility, and a fruit not to be expected from the fructifying part it felf. Which faculty were it communicated unto Animals, whose originals are double, as well as unto Plants, whose seed is within themselves : we might abate the Art of Taliacotine, and the new in-arching

of Noses. And therefore the fansies of Poets have been so modest, as not to set down such renovations, even from the powers of their deities: for the mutilated shoulder of Pelops was pieced out with Ivory, and that the limbs of Hippolitus were set together, not regenerated by Assumption, is the utmost affection of Poetry.

CHAP. X.

Of the Ring-fisher.

Hata King-fisher hanged by the bill, sheweth in what quarter the wind is by an occult and secret propriety, converting the breast to that point of the Horizon from whence the wind doth blow, is a received opinion, and very strange; introducing natural Weather-cocks, and extending Magnetical positions as far as Animal Natures. A conceit supported chiefly by present practice, yet not made out by Reason

or Experience.

Whence it is, that fome creatures prefage the weather.

Unto Reason it seemeth very repugnant, that a carcals or body disanimated, should be so affected with every wind, as to carry a conformable respect and constant habitude thereto. For although in fundry Animals we deny not a kind of natural Meteorology or innate presention both of wind and weather, yet that proceeding from fense receiving impressions from the first mutation of the air, they cannot in reason retain that apprehension after death, as being affections which depend on life, and depart upon difanimation. And therefore with more favourable Reason may we draw the san e effect or sympathic upon the Hedg-hog, whose presention of winds is so exact, that it stoppeth the North or Southern hole of its nest, according to the prenotion of these winds ensuing; which fomemen observing, have been able to make predictions which way the wind would turn, and been efteemed hereby wife men in point of weather. Now this proceeding from fense in the creature alive, it were not reasonable to hang up an Hedg-hogs head, and to expect a conformable motion unto its living conversion. And though in fundry Plants their vertues do live after death, and we know that Scammony, Rhubarb and Scena will purge without any vital affiftance; yet in Animals and fenfible creatures, many actions are mixt, and depend upon their living form, as well as that of miltion; and though they wholly feem to retain unto the body, depart upon difunion. Thus Glow-worms alive, project a luftre in the dark, which fulgour notwithstanding ceaseth after death; and thus the Tropedo which being alive stupisies at a distance, applied after death, produceth no fuch effect; which had they retained in places where

they abound, they might have supplied Opium, and served as frontals in Phrenfies.

As for experiment, we cannot make it out by any we have attempted: for if a fingle King-fisher be hanged up with untwifted filk in an open room, and where the air is free, it observes not a constant respect unto the mouth of the wind, but variously converting, doth feldom breast it right. If two be suspended in the same room, they will not regularly conform their breafts, but oft-times respect the opposite points of Heaven. And if we conceive that for exact exploration, they should be suspended where the air is quiet and unmoved, that clear of impediments, they may more freely convert upon their natural verticity; we have also made this way of inquisition, suspending them in large and capacious glaffes closely stopped; wherein nevertheless we observed a casual station, and that they rested irregularly upon conversion. Wheresoever they rested, remaining inconverted, and possessing one point of the Com-

pass, whilst the wind perhaps had passed the two and thirty.

The ground of this popular practice might be the common opinion Commonly concerning the vertue prognostick of these Birds; as also the natural mistaken for the true Halregard they have unto the winds, and they unto them again; more espe- cion, ours becially remarkable in the time of their nidulation, and bringing forth their ing rather the young, For at that time, which happeneth about the brumal Solftice, it Ispida. hath been observed even unto a proverb, that the Sea is calm, and the winds do cease, till the young ones are excluded; and forfake their nest which floateth upon the Sea, and by the roughness of winds might otherwise be overwhelmed. But how far hereby to magnific their prediction we have no certain rule; for whether out of any particular prenotion they chuse to sit at this time, or whether it be thus contrived by concurrence of causes and providence of Nature, securing every species in their production, is not yet determined. Surely many things fall out by the design of the general motor, and undreamt of contrivance of Nature, which are not imputable unto the intention or knowledge of the particular Actor. So though the seminality of Ivy be almost in every earth, yet that it ariseth and groweth not, but where it may be supported; we cannot ascribe the same unto the distinction of the feed, or conceive any science therein which suspends and conditionates its eruption. So if, as Pliny and Plutarch report, the Crocodiles of Egypt so aprly lay their Eggs, that the Natives thereby are able to know how high the floud will attain; it will be hard to make out, how they should divine the extent of the inundation depending oncaules fo many miles remote; that is, the measure of shores in Athiopia; and whereof, as Athanasius in the life of Anthony delivers, the Devil himfelf upon demand could make no clear prediction. So are there likewife many things in nature, which are the fore runners or figns of future effects,. whereto they neither concur in causality or prenotion, but are secretly, ordered:

ordered by the providence of causes, and concurrence of actions colla-

teral to their fignations.

It was also a custome of old to keep these Birds in chests, upon opinion that they prevented Moths; whether it were not first hanged upin Rooms to such effects, is not beyond all doubt. Or whether we missing it by the bill, whereas we should do it by the back; that by the bill it might point out the quarters of the wind; for so hath Kircherus described the Orbis and the Sea Swallow. But the eldest custome of hanging up these birds was founded upon a tradition that they would renew their teathers every year as though they were alive: In expectation whereof four hundred years ago Albertus Magnus was deceived.

HO TOMBOO SHE CHAP XI.

u man alt ode as ; e e A bloda lo si di con - q a cao na strict consiliorna **Of Griffins.** al a madrido e cignete ote stoi musta a con

Hat there are Griffins in Nature, that is a mixt and dubious Animal, in the fore-part refembling an Eagle, and behind the shape of a Lion, with erected ears, four feet and along tail, many affirm, and most. I perceive, deny not. The same is averred by Elian, Solinus, Mela, and Herodorus, countenanced by the Name sometimes found in

Scripture, and was an Hieroglyphick of the Egyptians.

Notwithstanding we find most diligent enquirers to be of a contrary affertion. For beside that Albertus and Pliny have disallowed it, the learned Aldrovandus hath in a large discourse rejected it; Mathias Michovius who writ of those Northern parts wherein men place these Griffins, hath politively concluded against it; and if examined by the Doctrine of Animals, the invention is Monstrous, nor much inferiour unto the figment of Sphynx, Chimara, and Harpies, for though there be some flying Animals of mixed and participating Natures, that is, between Bird and quadruped, yet are their wings and legs fo fet together, that they feem to make each other; there being a commixtion of both, rather then an adaptation or cement of prominent parts unto each other, as is observable in the Bat, whose wings and fore-legs are contrived in each other. For though fome species there be be of middle and participating Natures, that is, of Bird and Beast, as Bats and some few others, yet are their parts fo conformed and fet together, that we cannot define the beginning or end of either; there being a commixtion of both in the whole, rather then an adaptation or cement of the one unto the other.

Now for the word got or Gryps, tometimes mentioned in Scripture, and frequently in humane Authors, properly understood, it fignifies some kind of Eagle or Vulture, from whence the Epithete Graphs for an hooked or Aquiline Nose. Thus when the Septuagint makes use of this word, Levit. 11. Tremellius and our Translation hath rendred it the Offifrage, which is one kind of Eagle. And although the Vulgar Translation, and that annexed unto the Septuagint, retain the word Gryps, which in ordinary and school construction is commonly rendred a Griffin, yet cannot the Latine assume any other sense then the Greek, from whence it is borrowed. And though the Latine Gryphes be altered somewhat by the addition of an b, or aspiration of the letter , yet is not this unusual; so what the Greeks call reor aus, the Latine will call Tropbeum; and that person which in the Gospel is named Kalonus, the Latines will render Cleophas. And therefore the quarrel of Origen was unjust, and his conception erroneous, when he conceived the food of Griffins forbidden by the Law of Moses: that is, Poetical Animals, and things of no existence. And therefore when in the Hecatombs and mighty Oblations of the Gentiles, it is delivered they facrificed Gryphes or Griffins; hereby we may understand some stronger sort of Eagles. And therefore also when its said in Virgil of an improper Match, or Mopsus marrying Nyla, Jungentur jam gryphes equis; we need not hunt after other fense, then that strange unions shall be made, and different Natures be conjoined together.

As for the testimonies of ancient Writers, they are but derivative, and terminate all in one Aristens a Poet of Proconclus; who affirmed that near the Arimaspi, or one-eyed Nation, Griffins desended the Mines of Gold. But this, as Herodotus delivereth, he wrote by hear-say; and Michovius who hath expressy written of those parts, plainly affirmeth, there is neither Gold nor Griffins in that Gountry, nor any such Animal extant; for so doth he conclude, Ego vero contra veteres authores, Gryphes nee in illa septementarionis, nee in alia orbis partibus inveniri

affirmarim.

Lastly, Concerning the Hieroglyphical authority, although it nearest approach the truth, it doth not infer its existency. The conceit of the Griffin properly taken being but a symbolical phansies in so intollerable a shape including allowable morality. So doth it well make out, the properties of a Guardian, or any person entrusted; the ears implying attention, the wings celerity of execution, the Lion-like shape, courage and audacity, the hooked bill, reservance and tenacity. It is also an Emblem of valour and magnanimity, as being compounded of the Eagle and Lion, the noblest Animals in their kinds; and so is it appliable unto Princes, Presidents, Generals, and all heroick Commanders; and so is it also born in the Coat-arms of many noble Families of Europe.

But the original invention seems to be Hieroglyphical, derived from

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the Egyptians, and of an higher signification. By the mystical conjunction of Hawk and Lion, implying either the Genial or the sydereous Sun, the great celerity thereof, and the strength and vigour in its operations. And therefore under such Hieroglyphicks Offris was described, and in ancient Coins we meet with Gryphins conjointly with Apollo's, Tripodes and Chariot wheels; and the marble Gryphins at Saint Peters in Rome, as learned men conjecture, were first translated from the Temple of Apollo. Whether hereby were not also mystically implied the activity of the Sun in Leo, the power of God in the Sun, or the influence of the Coelestial Offris, by Moptha the Genius of Nilus, might also be considered. And then the learned Kircherus, no man were likely to be a better Ordipus.

CHAP. XII.

Of the Phanix.

That there is but one Phoenix in the World, which after many hundred years burneth it self, and from the ashes thereof ariseth up another, is a conceit not new or altogether popular, but of great Antiquity; not only delivered by humane Authors, but frequently expressed also by holy Writers; by syril, Epiphanius, and others, by Ambrose in his Hexameron, and Tertullian in his Poem De Judicio Domini; but more agreeably unto the present sense, in his excellent Tract, De Resurrectione carnis. Islum dico alitem orientis peculiarem, de singularitate famosum, de posteritate monstruosum; qui semetissum libenter suneram renovat, natali sine decedens, atque succedens iterum Phoenix. Ubi jam nemo, iterum ipse; quia non jam, alius idem. The Scripture also seems to savour it, particularly that of Job 21. In the interpretation of Beda, Dicebam in nidulo meo moriar, & sicut Phoenix multiplicabo dies: and Psal. 31. Sicus are official sicus of vir justus ut Phoenix florebit, as Tertula lian renders it, and so also expounds it in his Book before alledged.

All which notwithstanding, we cannot presume the existence of this Animal; nor dare we affirm there is any Phoenix in Nature. For, first there wants herein the definitive confirmator and test of things uncertain, that is, the sense of man, For though many Writers have much enlarged hereon, yet is there not any ocular describer, or such as presument to confirm it upon aspection. And therefore Herodotus that led the story that the Greeks, plainly saith, he never attained the sight of any, but only

in the picture.

Again, Trim tive Authors, and from whom the fream of relations is

Against the story of the Phoenix.

derivative, deliver themselves very dubiously; and either by a doubtful parenthesis, or a timerous conclusion overthrow the whole relation. Thus Herodotsus in his Enterpe, delivering the story hereof, presently interpofeth, ine por i misse signifes; that is, which account feems to me improhable. Tacitus in his annals affordeth a larger story, how the Phoenix was first leen at Heliopolis in the reign of Sefostris, then in the reign of Amasis, after in the days of Ptolomy, the third of the Macedonian race; but at last thus determineth , Sed Antiquitas obseura, & nonnulli falsum esse hune Phanicem, neque Arabum è terris credidere. Pliny makes vet a fairer story, that the Phoenix flew into Egypt in the Consulthip of Quintus Plancius, that it was brought to Rome in the Cenforship of Clandius. in the eight hundred year of the City, and testified also in their records; but after all concludeth, Sed que falfa nemo dubitabit, As we read it in the fair and ancient impression of Brixia; as Aldrovandus hath quoted it, and as it is found in the manuscript Copy, as Dalechampius hath also noted.

Moreover, Such as have naturally discoursed hereon, have so diversly. contrarily, or contradictorily delivered themselves, that no affirmative from thence can reasonably be deduced. For most have positively denied it, and they which affirm and believe it, affign this name unto many, and miltake two or three in one. So hath that bird been taken for the Phoenix which liveth in Arabia, and buildeth its nest with Cinnamon; by Herodotus called Cinnamulgus, and by Aristotle, Cinnamomus; and as a fabulous conceit is centured by Scaliger. Some have conceived that bird to be the Phoenix, which by a Persian name with the Greeks is called Rhyntace; but how they made this good we find occasion of doubt; whilest we read in the life of Artaxerxes, that this is a little bird brought often to their Tables, and where with Pary aris cunningly poiloned the Queen. The Manucodiata or Bird of Paradife, hathhad the honour of this name, and their feathers brought from the Molucca's do pass for those of the Phænix. Which though promoted by rarity with us, the Eastern Travellers will hardly admit; who know they are common in those parts, and the ordinary plume of Janizaries among the Turks. And lastly, the Bird Semenda hath found the same appellation, for so hath Scaliger observed and refuted; nor will the solitude of the Phænix allow this denomination; for many there are of that species, and whose trifisfulary bill and crany we have beheld our felves. Nor are men only at variance in regard of the Phoenix it felf, but very disagreeing in the accidents ascribed thereto: for some affirm it liveth three hundred, some five, others fix, fome a thouland, others no less then fifteen hundred years; some lay it liveth in Æthiopia, others in Arabia, some in Egypt, others in India, and some in Utopia; for such a one must that be which is described by Lastantius; that is, which neither was finged in the combustion of Phaseton, or overwhelmed by the innundation of Deucalion. Laftly,

Laftly, Many Authors who have discoursed hereot, have so delivered themselves, and with such intentions, that we cannot from thence deduce a confirmation. For some have written Poetically, as Ovid, Manthan, La. Frantises, Clandian, and others: Some have written my flically, as Paracellin in his Book De Azoth, or De ligno & linea vita; and as feveral Herme. tical Philosophers, involving therein the fecret of their Elixir, and enigmatically expressing the nature of their great work. Some have written Rhetorically, and conceffively, not controverting, but affuming the queffior, which taken as granted, advantaged the illation. So have holy men made use hereof as far as thereby to confirm the Resurrection; for difcourfing with Heathens who granted the story of the Phænix, they induced the Refurrection from principles of their own, and politions received among themselves. Others have spoken Emblematically and Hieroglyphically; and so did the Egyptians, unto whom the Phonix was the Hieroglyphick of the Sun. And this was probably the ground of the whole relation; fucceeding Ages adding fabulous accounts, which laid together built up this fingularity, which every Pen proclaimeth.

As for the Texts of Scripture, which feem to confirm the conceit, duly perpended, they add not thereunto. For whereas in that of Tob, acsording to the Septuagint or Greek Translation we find the word Phemx, yet can it have no animal fignification; for therein it is not expressed pirit, but stary of peine, the trunk of the Palm-tree, which is also called Phoenix; and therefore the conftruction will be very hard, if not applied unto some vegetable nature. Nor can we fafely infift upon the Greek expression at all; for though the Vulgar translates it Palma, and some retain the word Picenix, others do render it by a word of a different fense; for so hath Tremellius delivered it : Dicebam quod apud nidum meum expirato, & sient arena multiplicato dis; so hath the Geneva and ourstranslated it, I faid I shall die in my Nest, and shall multiply my days as the fand. As for that in the Book of Plalms, Vir justus ut Phanix florebit, as Epiphanius and Tertullian render it, it was only a miltake upon the Homonymy of the Greek word Pænix, which fignifies also Which is a fallacy of equivocation, from a community in name inferring a common nature; and whereby we may as firmly conclude, that Diaphænicon a purging Electuary hath some part of the Phoenix for its ingredient; which receiveth that name from Dates, of the fruit of the Palm-tree, from whence, as Pliny delivers, the Phoenix had its name.

Confent of Rames.

Nor do we only arraign the existence of this Animal, but many things are questionable which are ascribed thereto, especially its unity, long life, and generation. As for its unity or conceit there should be but one in nature, it seemeth not only repugnant unto Philosophy, but also holy Scripture; which plainly affirms, there went of every fort two at least into the Ark of Noah, according to the Text, Every Foul after his kind,

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every bird of every fort, they went into the Ark, two and two of all flesh, wherein there is the breath of life, and they that went in, went in both male and female of all flesh. It infringeth the benediction of God concerning multiplication. God bleffed them, faying, Be fruitful and multiply, Gen; 1. and fill the waters in the feas, and let fowl multiply in the earth : And again, Bring forth with thee every living thing, that they may breed abundantly in Chap. & the earth, and be fruitful and multiply upon the earth: which terms are not appliable unto the Phænix, whereof there is but one in the world, and no more now living then at the first benediction. For the production of one, being the destruction of another, although they produce and generate, they encrease not; and must not be said to multiply, who do not transcend an unity.

As for longavity, that it liveth a thousand years or more; beside that from imperfect observations and rarity of appearance, no confirmation can be made; there may be probable a mistake in the compute. For the tradition being very ancient and probably Egyptian, the Greeks who dispersed the Fable, might summ up the account by their own numeration of years; whereas the conceit might have its original in times of shorter compute. For if we suppose our present calculation, the Phæ- That the nix now in nature will be the fixth from the Creation, but in the middle World should of its years; and if the Rabbins Prophecie succeed, shall conclude its days last but fix not in his own but the last and general flames, without all hope of Re- thousand years viviction.

Concerning its generation, that without all conjunction it begets and refeminates it felf, hereby we introduce a vegetable production in Animals, and unto fensible natures, transfer the propriety of Plants; that is, to multiply within themselves, according to the Law of the Creation, Let the earth bring forth grass, the herb yielding seed, and the tree yielding Gen. to fruit, whose seed is in it self. Which is indeed the natural way of Plants, who having no distinction of sex, and the power of the species contained in every individuum, beget and propagate themselves without commixtion; and therefore their fruits proceeding from simpler roots, are not to unlike, or diftinguishable from each other, as are the off-fprings of tentible creatures and prolifications descending from double originals. But Animal generation is accomplished by more, and the concurrence of two fexes is required to the constitution of one. And therefore such as have no diffinction of fex, engender not at all, as Aristotle conceives of Eels, and testaceous animals. And though Plant-animals do multiply, they do it not by copulation, but in a way analogous unto Plants. Hermaphrodites although they include the parts of both fexes, and may be sufficiently potent in either; yet unto a conception require a separated fex, and cannot impregnate themselves. And so also though Adam included all humane nature, or was (as some opinion) an Hermaphrodite, yet had he no power to propagate himself; and therefore God said, It is

not good that man |hould be alone, let us make him an help meet for him: that is, an help unto generation; for as for any other help, it had been fitter to have made another man.

Edvicira.

Now whereas some affirm that from one Phænix there doth not immediately proceed another, but the first corrupteth into a worm, which after becometh a Phoenix, it will not make probable this production. Irregularities. For hereby they confound the generation of perfect animals with imperfect, fanguineous with exanguineous, vermiparous with oviparous. and erect Anomalies, disturbing the laws of Nature. Nor will this corsuptive production be easily made out in most imperfect generations; for although we deny not that many animals are vermipatous, begetting themselves at a diffunce, and as it were at the second hand (as generally Infects, and more remarkably Butter-flies and Silk-worms) yet proceeds not this generation from a corruption of themselves, but rather a specifical and seminal diffusion, retaining still the Idea of themselves, though it act that part a while in other thapes. And this will also hold in generations equivocal, and fuch as are not begotten from Parents like themselves; so from Frogs corrupting, proceed not Progs again; fo if there be anatiferous Trees, whole corruption breaks forth into Bernacles, yet if they corrupt, they degenerate into Maggots, which produce not them again. For this were a confusion of corruptive and seminal production, and a frustration of that seminal power committed to animals at the Creation. The problem might have been spared, Why we love not our lice as well as our children? Noahs Ark had been needless, the graves of Animals would be the fruitful'st wombs; for death would not deftroy, but empeople the world again.

Since therefore we have fo flender grounds to confirm the existence of the Phænix, fince there is no ocular witness of it, fince as we have declared, by Authors from whom the story is derived, it rather stands rejected: fince they who have seriously discoursed hereof, have delivered themfelves negatively, diverfly, or contrarily; fince many others cannot be drawn into Argument, as writing Poctically, Rhetorically, Enigmatically, Hieroglyphically; fince holy Scripture alledged for it duly perpended, doth not advantage it; and laftly, fince so strange a generation, unity and long life, bath neither experience nor reason to confirm it, how far to rely

on this tradition, we refer unto confideration

But furely they were not well-wishers unto parable Physick, or remedies easily acquired, who derived medicines from the Phænix; as some have done, and are justly condemned by Pliny; Irridere eft, vita remedia post millesimum annum redditura monstrare; It is a folly to find out remedies that are not recoverable under a thousand years; or propose the prolonging of life by that which the twentieth generation may never behold. More veniable is a dependance upon the Philosophers stone, potable gold, or any of those Accana's whereby Paracelsus that died himself at forty leven, gloried that he could make other men immortal. Which,

although.

although extreamly difficult, and tantum non infelible, yet are they not impossible, nor do they (rightly understood) impose any violence on Nature. And therefore if strictly taken for the Phoenix, very strange is that which is delivered by Plutarch, That the brain thereof is a pleafant bit, but that it causeth the head-ach. Which not withstanding the luxurious De sanitate mi Emperour could never tafte, though he had at his Table many a Phoeni-Heliogabalw. copterus, yet had he not one Phoenix; for though he expected and attempted it, we read not in Lampridius that he performed it; and confidering the unity thereof, it was a vain defign, that is, to destroy any species, or mutilate the great accomplishment of fix days. And although fome conceive, and it may feem true, that there is in man a natural poffibility to destroy the world in one generation, that is, by a general conspire to know no woman themselves, and disable all others also; yet will this never be effected. And therefore Cain after he had killed Abel, were there no other woman living, could not have also destroyed Eve: which although he had a natural power to effect, yet the execution thereof, the providence of God would have relifted: for that would have imposed another creation upon him, and to have animated a second Rib of Adam,

CHAP. XIII.

Of Frogs, Toads, and Toad Rone.

Oncerning the venomous Urine of Toads, of the stone in the Toads head, and of the generation of Frogs, conceptions are entertained which require consideration. And first, that a Toad pisseth, and this way diffusethits venome, is generally received, not only with us, but also in other parts; for fo hath Scaliger observed in his Comment, Aversum urinam reddere ob oculos persecutoris perniciosam ruricolis persuasam est; and Mathiolus hath alfo a passage, that a Toad communicates its yenome, not only by Urine, but by the humidity and flaver of its mouth: which notwithstanding strictly understood, may admit of examination: for some doubt may be made whether a Toad properly pisseth, that is distinctly and separately voideth the serous excretion: for though not only birds, but oviparous quadrupeds and Scrpents have kidneys and ureters, and some Fishes also bladders: yet for the moist and dry excretion they feem at last to have but one vent and common place of exclusion: and with the same propriety of language, we may ascribe that action unto Crows and Kites. And this not onely in Frogs and Toads, but may be enquired in Tortoyfes; that is, whether that be strictly true, or to be taken for a distinct and separate miction, when Aristotle : Aristotle affirmeth, that no oviparous animal, that is, which either spawn-

eth or layeth Eggs, doth Urine except the Tortois.

The ground or occasion by this expression might from hence arise, that Toads are sometimes observed to exclude or spit out a dark and liquid matter behinder which we have observed to better, and a venomous condition there may be perhaps therein, but some doubt there may be, whether this is to be called their urine: not because it is emitted aversty or backward, by both sexes, but because it is consounded with the intestinal exerctions and egestions of the besty: and this way is ordinarily observed, alchough possible it is that the liquid exerction may sometimes be excluded without the other.

As for the stone commonly called a Toad stone, which is presumed to be found in the head of that animal, we first conceive it not a thing impossible: nor is there any substantial reason why in a Toad there may not be found such hard and lapideous concretions. For the like we daily observe in the heads of Fishes, as Cods, Carps, and Pearches: the like also in Snails; a soft and exosteous animal, whereof in the naked and greater fort, as though she would require the defect of a shell on their back, Naturenear the head hath placed a flat white stone, or rather testaceous concretion. Which though Aldrovandus affirms, that after diffe-

ction of many, he found but in some few: yet of the great gray Snails,

I have not met with any that wanted it: and the same indeed so palpable, that without dissection it is discoverable by the hand.

Again, though it be not impossible, yet it is surely very rare: as we are induced to believe from some enquiry of our own, from the trial of many who have been deceived, and the frustrated search of Porta, who upon the explorement of many, could scarce find one. Nor is it only of rarity, but may be doubted whether it be of existencie, or really any such stone in the head of a Toad at all. For although Lapidaries and questivary enquirers affirm it, yet the Writers of Minerals and natural speculators, are of another belief: conceiving the stones which bear this name, to be a Mineral concretion; not to be found in animals, but in fields. And therefore Bæinus refers it to Asteria or some kind of Lapis stellaris, and plainly concludeth, reperiment in agric, quos tamen alii in annossis, ac qui din in Arundinetis, inter rubos sentesque delituerum, bufonis capitibus generari pertinaciter assument.

Lastly, If any such thing there be, yet must it not, for ought I see, be taken as we receive it, for a loose and moveable stone, but rather a concretion or induration of the crany it self; for being of an earthy temper, living in the earth, and as some say feeding thereon, such indurations may sometimes happen. Thus when Brassavius after a long search had discovered one, he affirms it was rather the forehead bone petrified, then a stone within the crany; and of this belief was Gesner. Which is also much confirmed from what is delivered in Aldrovandus,

upon experiment of very many I oads, whole cranics or sculs in time grew hard, and almost of a stony substance. All which considered, we must with circumspection receive those stones which commonly bear this name, much less believe the traditions, that in envy to mankind they are cast out, or swallowed down by the Toad; which cannot consist with Anatomy, and with the rest, enforced this censure from Batins, Ab to tempore pro nugue habus quod de Busonio lapide, cjusque origino traditur.

What therefore best reconcileth these divided determinations, may be amiddle opinion; that of these stones some may be mineral, and to be sound in the earth; some animal, to be met with in Toads, at least by the De Mineral; induration of their cranies. The first are many and manifold, to be 166. 4. sound in Germany and other parts; the last are sewer in number, and in Answei Calcer substance not unlike the stones in Crabs heads. This is agreeable unto striani. Seel. 3. the determination of Aldrovandus, and is also the judgment of learned

Spigelius in his Epittle unto l'ignorius.

But these Tondstones, at least very many thereof, which are esteemed among us, are at last found to be taken not out of Toads heads, but out of a Fishes mouth, being handsomely contrived out of the teeth of the Lupus Marinus, a Fish often taken in our Northern Seas, as was publickly declared by an eminent and learned Physician. But because men Sir George are unwilling to conceive so low of their Tondstones which they so Enshighly value, they may make some trial thereof by a candenterned hot Iron applied unto the hollow and unpolished part thereof, whereupon if they be true stones they will not be apt to burn or afford a burnt odour, which they may be apt to do, if contrived out of animal parts or the teeth of sishes.

Concerning the generation of Frogs, we shall briefly deliver that account which observation hath taught us. By Frogs I understand not such as arising from putrefaction, are bred without copulation, and because they subsist not long, are called Temporaria; nor do I mean the little Frog of an excellent Parrat green, that usually fits on Trees and Bushes, and is therefore called Rannneuins viridis, or abortus; but hereby I understand the aquatile or Water-Frog, whereof in ditches and standing plashes we may behold many millions every Spring in England. Now these do not as Pliny conceiveth, exclude black pieces of flesh, which after become Frogs; but they let fall their spawn in the water, of excellent use in Physick, and scarce unknown unto any. In this spawn of a lentous and transparent body, are to be discerned many specks, or little conglobulations, which in a small time become of deep black, a substance more compacted and terrestrious then the other; for it rifeth not in distillation, and affords a powder when the white and aqueous part is exhaled. Now of this black or duskie substance is the Frog at last formed; as we have beheld, including the spawn with water

Amphibious

elements of land and wa-

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as live in both

fubstance, in a few days began to dilate and grow longer, after a while the head, the eyes, the tail to be discernable, and at last to become that which the Ancients called Gyrinus, we a Pornigle or Tadpole. This in some weeks after becomes a perfect Frog, the legs growing out before, and the tail wearing away, to supply the other behind; as may be observed in some which have newly forsaken the water; for in such, some part of the tail will be seen, but curtailed and fhort, not long and finny as before. A part provided them a while to fwim and move in the water, that is, untill fuch time as Nature excluded legs, whereby they might be provided not only to fwim in the water, but move upon the land, according to the amphibious and mixt intention of Nature, that is, to live in both. So that whoever observeth the first progression of the seed before motion, or shall take notice of the strange indistinction of parts in the Tadpole, even when it moveth about, and how successively the inward parts do feem to discover themselves, until their last perfection: may eafily discern the high curiofity of Nature in these inferiour animals, and what a long line is run to make a Frog.

in a glass, and exposing it unto the Sun. For that black and round

And because many affirm, and some deliver, that in regard it hath lungs and breatheth, a Frog may be easily drowned; though the reason be probable, I find not the experiment answerable; for fast-ning one about a span under water, it lived almost six days. Nor is it only hard to destroy one in water, but difficult also at land: for it will live long after the lungs and heart be out; how long it will live in the seed, or whether the spawn of this year being preserved, will not arise into Frogs in the next, might also be enquired: and we are

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CHAP.

CHAP. XIV.

Of the Salamander.

Hat a Salamander is able to live in flames, to endure and put out fire, is an affertion, not only of great antiquity, but confirmed by frequent, and not contemptible testimony. The Egyptians have drawn it into their Hierogly phicks, Aristotle seemeth to embrace it; more plainly Nicander, Sarenus Sammonicus, Elian and Pliny, who affigns the cause of this effect: An Animal (saith he) so cold that it extinguisheth the fire like Ice. All which notwithstanding, there is on the negative, Authority and Experience; Sextim a Physician, as Pliny delivereth, denied this effect; Dioscorides affirmed it a point of folly to believe it; Galen that it endureth the fire a while, but in continuance is confumed therein. For experimental conviction, Mathiolus affirmeth, he faw a Salamander burnt in a very faort time : and of the like affertion is Amatus Lustranus; and most plainly Pierius, whose words in his Hieroglyphicks are these; whereas it is commonly said that a Salamander extinguisheth fire, we have found by experience, that it is so far from quenching hot coals, that it dieth immediately therein. As for the contrary affertion of Aristotle, it is but by hear fay, as common opinion believeth, A corruptive Hac enim (ut aiunt) ignem ingrediens, eum extinguit; and therefore there flooring the was no abfurdity in Galen, when as a Septical medicine he commended parts like Ar. the ashes of a Salamander; and Magicians in vain from the power of senike. this Tradition, at the burning of Towns or Houses expect a relief from Salamanders.

The ground of this opinion, might be some sensible resistance of fire observed in the Salamander: which being, as Galen determineth, cold in the fourth, and moist in the third degree, and having also a mucous humidity above and under the skin, by vertue thereof it may a while endure the flame; which being confumed, it can result no more. Such an humidity there is observed in Newtes, or Water-Lizards, especially if their skins be perforated or pricked. Thus will Frogs and Snails endure the flame: thus will whites of Eggs, vitreous or glaffie flegm extinguish a coal: thus are unguents made which protect a while from the fire: and thus beside the Hirpini there are later stories of men that have passed untoucht through the fire. And therefore some truth we allow in the tradition: truth according unto Galen, that it may for a time refift a flame, or as Scaliger avers, extinguish or put out a coal: for thus much will many humid bodies perform: but that it perfeveres and lives in that destructive element, is a fallacious enlargement. Nor do we reasonably conclude, because for a time it endureth fire, it subdueth and extin-

guisheth

guisheth the same, because by a cold and aluminous moisture, it is able a while to refift it: from a peculiarity of Nature it sublisteth and liveth in it.

It hath been much promoted by Stories of incombustible napkins and textures which endure the fire, whose materials are called by the name of Salamanders wool, Which many too literally apprehending, conceive fome investing part, or tegument of the Salamander: wherein beside that they militake the condition of this Animal (which is a kind of Lizard, a quadruped corticated and depilous, that is, without wool, fur, or hair) they observe not the method and general rule of nature : whereby all Quadrupeds oviparous, as Lizards, Frogs, Tortois, Chamelions, Crocodiles, are without hair, and have no covering part or hairy investment at And if they conceive that from the skin of the Salamander, these incremable pieces are composed; beside the experiments made upon the living, that of Braslavolus will step in, who in the search of this truth, did burn the skin of one dead.

Nor is this Salamanders wooll defumed from any Animal, but a Mineral substance Metaphorically so called from this received opinion. For beside Germanicus his heart, and Pyrrbus his great Toe, which would not burn with the rest of their bodies, there are in the number of Minerals some bodies incombustible; more remarkably that which the Ancients named Asbeston, and Pancirollus treats of in the Chapter of Linum vivum. Whereof by Art were weaved Napkins, Shirts, and Coats, inconfumable by fire; and wherein in ancient times to preserve their ashes pure, and without commixture, they burnt the bodies of Kings. A Napkin hereof Pliny reports that Nero had, and the like faith Paulus Veneius the Emperour of Tartary fent unto Pope Alexander; and also affirms that in some part of Tartary there were Mines of Iron whose filaments were weaved into incombustible cloth. Which rare Manufacture, although delivered for loft by Pancirollus, yet Salmuth his Commentator affirmeth, that one Podocaterus a Cyprian, had shewed the same at Venice; and his materials were from Cyprus, where indeed Dioscorides placeth them; the same is also ocularly confirmed by Vives upon Austin, and Maiolus in his Colloquies. And thus in our days do men practise to make long-lafting Snafts for Lamps out of Alumen plumofum; and by the same we read in Pansaning, that there always burnt a Lamp before the Image of Minerva.

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CHAP. XV.

Of the Amphisbana.

That the Amphisbæna, that is, a smaller kind of Serpent, which moveth forward and backward, hath two heads, or one at either extream, was affirmed first by Nicander, and after by many others, by the Author of the Book De Theriaca ad Pisonem, ascribed unto Galen; more plainly Pliny, Geminum habet caput, tanquam parum effet uno ore effundi venenum: but Elian most considently, who referring the conceit of Chimera and Hydra unto Fables, hath set down this as an undeniable truth.

Whereunto while men affent, and can believe a bicipitous conformation in any continued species, they admit a gemination of principle parts, not naturally discovered in any Animal. True it is that other parts in Animals are not equal; for some make their progression with many legs, even to the number of an hundred, as Juli, Scolopendre, or such as are termed Centipedes: some sly with two wings, as Birds and many Insects, some with four, as all farinaceous or mealy-winged Animals, as Butterslies, and Moths: all vaginipennous or sheath-winged Insects, as Beetles and Dorrs. Some have three Testicles, as Aristotle speaks of the Buzzard; and some have four stomachs, as horned and ruminating Animals: but for the principle parts, the Liver, Heart, and especially the brains regularly they are but one in any kind or species whatsoever.

And were there any such species or natural kind of animal, it would be hard to make good those six positions of body, which according to the three dimensions are ascribed unto every Animal: that is, infra, supra, ante, retro, dextrosum, sinistrosum: for is (as it is determined) that be the anterior and upper part, wherein the senses are placed, and that the posterior and lower part which is opposite thereunto, there is no inferiour or former part in this Animal; for the senses being placed at both extreams, doth make both ends anterior, which is impossible; the terms being Relative, which mutually subsist, and are not without each other. And therefore this duplicity was ill contrived to place one head at both extreams, and had been more tolerable to have settled three or four at one. And therefore also Poets have been more reasonable then Philosophers, and Gerson or Corberus less monstrous then Amphibana.

Again, If any fuch thing there were, it were not to be obtruded by the name of Amphishana, or as an Animal of one denomination; for properly that Animal is not one, but multiplicious or many, which hath a duplicity or gemination of principal parts. And this doth Aristotle define, when he affirmeth a monster is to be esteemed one or many, ac-

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cording

cording to its principle, which he conceived the heart, whence he derived the original of Nerves, and thereto ascribed many acts which Physitians assign unto the brain: and therefore if it cannot be called one, which hath a duplicity of hearts in his sense, it cannot receive that appellation with a plurality of heads in ours. And this the practice of Christians hath acknowledged, who have baptized these geminous births, and double connascencies with several names, as conceiving in them a distinction of souls, upon the divided execution of their functions; that is, while one wept, the other laughing; while one was silent, the other speaking; while one awaked, the other sleeping; as is declared by three remarkable examples in Petrarch, Vincentins and the Scottish History of Buchanan.

It is not denied there have been bicipitous Serpents with the head at each extream, for an example hereof we find in Aristotle, and of the like form in Aldrovandus we meet with the Icon of a Lizzard; and of this kind perhaps might that Amphisbana be, the picture whereof Cassianus Puteus shewed unto the learned Faber. Which double formations do often happen unto multiparous generations, more especially that of Serpents; whose productions being numerous, and their Eggs in chains or links together (which sometime conjoin and inoculate into each other) they may unite into various shapes and come out in mixed formations. But these are monstrous productions, beside the intention of Nature, and the statutes of generation, neither begotten of like parents, nor begetting the like again, but irregularly produced, do ftand as Anomalies in the general Book of Nature. Which being thifts and forced pieces, rather then genuine and proper effects, they afford us no illation; nor is it reasonable to conclude; from a monstrofity unto a species, or from accidental effects, unto the regular works of Nature.

Lastly, The ground of the conceit was the figure of this Animal, and motion of times both ways; for described it is to be like a worm, and so equally framed at both extreams, that at an ordinary distance it is no easie matter to determine which is the head; and therefore some obferving them to move both ways, have given the appellation of heads unto both extreams, which is no proper and warrantable denomination; for many Animals with one head, do ordinarily perform both different and contrary Motions; Crabs move sideling, Lobsters will swim swiftly backward, Worms and Leeches will move both ways; and so will most of those Animals, whose bodies consist of round and annulary sibers, and move by undulation; that is, like the waves of the Sea, the one protruding the other, by inversion whereof they make a backward Motion.

Upon the same ground hath arisen the same mistake concerning the Scolopendra or hundred-sooted Insect, as is delivered by Rhodiginus from

the Scholiast of Nicander: Dicitur à Vicandro, auptinopis, id est, dicephalus ant biceps sistum vero, quoniam retrorsum (ut scribit Aristoteles) arrepis, observed by Aldrovandus, but most plainly by Musseum, who thus concludeth upon the Text of Nicander: Tamen pace tanti authoris dixerim, unicum illi duntaxat caput licet pari facilitate, prorsum capite, retrorsum ducente canda, incedat, quod Nicandro alissque impossisse dubito: that is, under savour of so great an Author, the Scolopendra bath but one head, although with equal facility it moveth forward and backward, which I suspect deceived Nicander, and others.

And therefore we must crave leave to doubt of this double-headed Serpent until we have the advantage to behold or have an iterated ocular testimony concerning such as are sometimes mentioned by American relators; and also such as Cassianus Putens shewed in a picture to Johannes Faber; and that which is set down under the name of Amphibana Europea in his learned discourse upon Hernandez, his Hi-

story of America.

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CHAP. XVI.

Of the Viper.

Hat the young Vipers force their way through the bowels of their Dam, or that the female Viper in the act of generation bites off the head of the male, in revenge whereof the young ones eat through the womb and belly of the female, is a very ancient tradition. In this fenie entertained in the Hicroglyphicks of the Egyptians; affirmed by Herodotus, Nicander, Pliny, Plutarch, Elian, Jerome, Basil, Isidore, Icems countenanced by Aristotle, and his Scholar Theophrastus: from hence is commonly affigned the reason why the Romans punished Parricides by drowning them in a Sack with a Viper. And so perhaps upon the same opinion the men of Mileta when they faw a Viper upon the hand of Paul, faid presently without conceit of any other fin, No doubt this man is a murderer, who though he have escaped the Sea, yet vengeance suffereth him not to live: that is, he is now paid in his own way, the parricidous Animal and punishment of murderers is upon him. And though the tradition were currant among the Greeks, to confirm the same the Latine name is introduced, Vipera quasi vi pariat; That passage also in the Gospel, O je generation of Vipers' hath-found expositions which countenance this conceit. Notwithstanding which authorities, transcribed relations and conjectures, upon enquiry we find the same repugnant unto. experience and reason.

And

Gen. I.

And first, it seems not only injurious unto the providence of Nature. to ordain a way of production which should destroy the producer, or contrive the continuation of the species by the destruction of the Continuator; but it overthrows and frustrates the great Benediction of God, God bleffed them, Saying, Be fruitful and multiply. Now if it be so ordained that some must regularly perish by multiplication, and these be the fruits of fructifying in the Viper; it cannot be faid that God did bless, but curse this Animal; "Upon thy belly shalt thou go, and dust shalt thou eat all thy life, was not so great a punishment unto the Serpent after the fall, as encrease, be fruitful and multiply, was before. This were to confound the Maledictions of God, and translate the curse of the Woman upon the Serpent: that is, in dolore paries, in forrow shalt thou bring forth; which being proper unto the Woman, is verified best in the Viper, whose delivery is not only accompanied with pain, but also with death it felf. And laftly, it-overthrows the careful course, and parental provision of Nature, whereby the young ones newly excluded are sustained by the Dam, and protected until they grow up to a sufficiency for themselves. All which is perverted in this eruptive generation: for the Dam being destroyed, the younglings are left to their own protection: which is not conceivable they can at all perform, and whereof they afford us a remarkable confirmance many days after birth. For the young one supposed to break through the belly of the Dam, will upon any fright for protection run into it; for then the old one receives them in at her mouth, which way the fright being past, they will return again, which is a peculiar way of refuge; and although it feem strange, is avowedby frequent experience and undeniable testimony.

As for the experiment, although we have thrice attempted it, it hath not well succeeded; for though we fed them with Milk, Bran, Cheese, &c. the females always died before the young ones were mature for this eruption; but relt sufficiently confirmed in the experiments of worthy enquirers. Wherein to omit the ancient conviction of Apollonius, we shall set down some few of Modern Writers. The first, of Amatus Lusitanus in his Comment upon Dioscorides, Vidimus nos viperas pragnintes inclusas pixidibus parere, que inde ex partu nec mortue, nec visceribus perforate manserunt. The second is that of Scaliger, Viperas ab impatientibus mora fatibus numerosissimis rumpi atque interire falsum esse scimus, sous cicatures. qui in Vincentii Camerini circulatoris lignea theca vidimus, enatas viperelias, parente (alva. The last and most plain of Franciscus Bustamantinus, a Spanish Physician of Alcala de Henares, whose words in his third de Animantibus Sciptura, are thele: Cam vero per me & per alios hac ipsa disquisissem servata Viperina progenie, &c. that is, when by my felf and others I had enquired the truth hereof, including Vipers in a glass, and feeding them with Cheefe and Bran, I undoubtedly found that the Viper was not delivered by the tearing of her bowels; but I beheld

That Vipers exclude their young ones by an ordinary pallage, as other vivipathe young ones excluded by the pattage of generation, near the orifice of the seidge. Whereto we might also add the ocular confirmation of Lacuna upon Dioscorides, Ferdinandus Imperatus, and that learned Physician

of Naples, Aurelius Severinus.

Now although the Tradition be untrue, there wanted not many grounds which made it plausibly received. The first was a favourable indulgence and special contrivance of Nature; which was the conceit of Herodotus, who thus delivereth himfelf. Fearful Animals, and fuch as ferve for food, Nature hath made more fruitful; but upon the offenfive and noxious kind, the hath not conferred fertility. So the Hare that becometh a prey unto Man, unto Beasts, and Fowls of the air, is fruitful even to superfætation; but the Lion, a fierce and ferocious Animal hath young ones but feldom, and also but one at a time; Vipers indeed although destructive, are fruitful; but lest their number should increase. Providence hath contrived another way to abate it: for in copulation the female bites off the head of the male, and the young ones destroy the mother, But this will not confift with reason, as we have declared before. And if we more nearly consider the condition of Vipers and noxious Animals, we shall discover an higher provision of Nature: how although in their paucity the hath not abridged their malignity, yet hath the notoriously effected it by their secession or latitancy. For not only offensive insects, as Hornets, Wasps, and the like; but sanguineous corticated Animals, as Serpents, Toads and Lizzards, do lie hid and betake themselves to coverts in the Winter. Whereby most Countries enjoyning the immunity of Ireland and Candie, their arifeth a temporal security from their venoms; and an intermission of their mischiefs, mercifully requiting the time of their activities.

A second ground of this effect, was conseived the justice of Nature, whereby she compensates the death of the father by the matricide or murder of the mother: and this was the expression of Nicander. But the cause hereof is as improbable as the effect; and were indeed an improvident revenge in the young ones, whereby in consequence, and upon defect of provision they must destroy themselves. And whereas he expresset this decollation of the male by so full a term as Diministry, that is, to cut or lop off, the act is hardly conceiveable; for the Viper hath but two considerable teeth, and those so disposed, so stender and needle-pointed, that they are apter for puncture then any act of incision. And if any like action there be, it may be only some tast retention or sudden compression in the Orgasium or sury of their lust; according as that ex-

pression of Horace is construed concerning Lydia and Telephus.

Impressit memorem dente labris notam.

Needle-fifth, found fometimes upon the Sea-thore, confifting of four lines unto the vent, and fix from thence unto the bead.

Others ascribe this effect unto the numerous conception of the Viper; and this was the opinion of Theophrastus. Who though he denieth the exciton or forcing through the belly, conceiveth nevertheless that upon a full and plentiful impletion there may perhaps succeed a disruption of the matrix, as it happeneth sometimes in the long and slender sith Acus. Now although in hot Countries, and very numerous conceptions, in the Viper or other Animals, there may sometimes ensue a dilaceration of the genital parts; yet is this a rare and contingent effect, and not a natural and constant way of exclusion. For the wise Creator hath formed the organs of Animals unto their operations, and in whom he ordaineth a numerous conception, in them he hath prepared convenient receptacles, and a sutable way of exclusion.

Others do ground this disruption upon their continued or protracted time of delivery, presumed to last twenty days; whereat excluding but one a day, the latter brood impatient, by a forcible proruption anticipate their period of exclusion; and this was the affertion of Pliny, Cateri tarditatu impatientes prorumpunt latera, occisa parente; which was occasioned upon a mistake of the Greek Text in Aristotle, ńasł j ch usa nuice autem una die secundum unum, parit autem plures quam viginti, and may be thus Englished, She bringeth forth in one day, one by one, and sometimes more then ewenty: and so hath Scaliger rendred it, Sigillatim parit, absolvit una die, interdum plures quam viginti: But Pliny, whom Gaza followeth, hath differently translated it, Singulos diebus singulu parit, numero ferè viginti; whereby he extends the exclusion unto twenty days, which in the textuary sense is fully accomplished in one.

But what hath most advanced it, is a mistake in another text of Arisotle, which seemeth directly to determine this disruption, with mixed it is a factor of the confidence of

stant disruption.

As for the Latine word Vipera, which in the Etymologie of Isidore promoteth this conceit; more properly it may imply vivipera. For whereas other Serpents lay Eggs, the Viper excludeth living Animals; and though the Cerastes be also viviparous, and we have found formed Snakes in the belly of the Cicilia or Slow-worm; yet may the Viper emphatically bear the name. For the notation or Etymology is not of necessity adequate unto the name; and therefore though animal he deduced from anima, yet are there many animations beside, and Plants

Plants will challenge a right therein as well as sensible Creatures.

As touching the Text of Scripture, and compellation of the Pharifees, by Generation of Vipers, although constructions be made hereof conformable to this Tradition; and it may be plausibly expounded, that out of a viparous condition, they conspired against their Prophets, and destroyed their spiritual parents; yet (as Jansenius observeth) Gregory and Jerome, do make another construction; apprehending thereby what is usually implied by that Proverb, Mali corvi, malum ovum; that is, of evil parents, an evil generation, a posterity not unlike their majority; of mischievous progenitors, a venomous and destructive progeny.

And lastly, Concerning the Hieroglyphical account, according to the Vulgar conception set down by Orus Apollo, the Authority thereof is only Emblematical; for were the conception true or false, to their apprehensions, it expressed slial impiety. Which strictly taken, and totally received for truth, might perhaps begin, but surely promote this con-

ception.

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More doubtful affertions have been raised of no Animal then the Viper, as we have dispersedly noted: and Francisco Redi hath amply discovered in his noble observations of Vipers; from good reasons and iterated experiments affirming, that a Viper containeth no humour, excrement, or part which either dranke or cat, is able to kill any: that the remorsores or dog-teeth, are not more then two in either sex: that these teeth are hollow, and though they bite and prick therewith, yet are they not venomous, but only open a way and entrance unto the poyson, which notwithstanding is not poysonous except it touch or attain unto the bloud. And that there is no other poison in this Animal, but only that almost insipid liquor like oyl of Almonds, which stagnates in the sheaths and cases that cover the teeth; and that this proceeds not from the bladder of gall, but is rather generated in the head, and perhaps demitted and sent from thence into these cases by salival conducts and passages, which the head communicateth unto them.

Arnabesh.

Levit. II.

CHAP. XVII.

of Hares.

He double fex of fingle Hares, or that every Hare is both male and female, beside the vulgar opinion, was the affirmative of Arche. laws, of Plutarch, Philostratus, and many more. Of the same be. lief have been the Jewith Rabbins: The fame is likewise confirmed from the Hebrew word; which, as though there were no fingle males of that kind, hath only obtained a name of the feminine gender. As also from the symbolical foundation of its prohibition in the law, and what vices therein are figured; that is, not only pufillanimity and timidity from its temper, feneration or usury from its feecundity and superfetation; but from this mixture of fexes, unnatural venery and degenerous effemination. Nor are there hardly any who either treat of mutation or mixtion of fexes, who have not left some mention of this point; some speaking positively, others dubiously, and most resigning it unto the enquiry of the Reader. Now hereof to speak distinctly, they must be male and female by mutation and succession of sexes; or else by composition, mixture or union thereof.

composition, mixture or union thereof

Teanimutation of Sexes, wize of Women into Men, granted.

As for the mutation of fexes, or transition into one another, we cannot deny it in Hares, it being observable in Man. For hereof beside Empedocles or Tiresias, there are not a few examples: and though very few, or rather none which have emasculated or turned women, yet very many who from an esteem or reality of being Women have infallibly proved Men. Some at the first point of their menstruous eruptions, some in the day of their marriage, others many years after: which occasioned disputes at Law, and contestations concerning a restore of the dowry. And that not only mankind, but many other Animals may suffer this transexion, we will not deny, or hold it at all impossible: although I confess by reason of the possible and backward position of the feminine parts in quadrupedes, they can hardly admit the substitution of a protrustion, effectual unto masculine generation; except it be in Retromingents, and such as couple backward.

Nor shall we only concede the succession of sexes in some, but shall not dispute the transition of reputed species in others; that is, a transmutation, or (as Paracelsians term it) Transplantation of one into another. Hereof in perfect Animals of a congenerous seed, or near affinity of natures, examples are not unfrequent, as in Horses, Asses, Dogs, Foxes, Pheasants, Cocks, &c. but in impersect kinds, and such where the discrimination of sexes is obscure, these transformations are more common: and in some within themselves without commixtion, as par-

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ticularly in Caterpillars or Silkworms, wherein there is a visible and triple transfiguration. But in Plants, wherein there is no distinction of fex. these transplantations are conceived more obvious then any; as that of Barley into Oats, of Wheat into Darnel; and those grains which generally arise among Corn, as Cockle, Aracus, Ægilops, and other degenerations; which come up in unexpected shapes, when they want the support and maintenance of the primary and mafter-forms. And the same do some affirm concerning other Plants in less analogy of figures; as the mutation of Mint into Cresses, Basil into Serpoile, and Turneps into Ras dishes. In all which, as Severinus conceiveth, there may be equivocal feeds and Hermaphroditical principles, which contain the radicality and cina Philofepower of different forms; thus in the feed of Wheat there lieth oblcurely phice. the feminality of Darnel, although in a fecondary or inferiour way, and at some distance of production; which nevertheless it it meet with convenient promotion, or a conflux and conspiration of causes more powerful then the other; it then beginneth to edifie in chief, and contemning the superintendent form, produceth the signatures of its self.

Now therefore although we deny not these several mutations, and do allow that Hares may exchange their fex, yet this we conceive doth come to pass but sometimes, and not in that vicissitude or annual alteration as is presumed. That is, from imperfection to perfection, from perfection to imperfection; from female unto male, from male to female again, and so in a circle to both without a permansion in either. For beside the inconceivable mutation of temper, which should yearly alternate the fex; this is injurious unto the order of nature, whose operations do rest in the perfection of their intents; which having once attained, they maintain their accomplished ends, and relapse not again into their progressional imperfections. So if in the minority of natural vigor, the parts of feminality take place; when upon the encrease or growth thereof the masculine appear, the first design of nature is atchieved, and those parts

are after maintained. But surely it much impeacheth this iterated transection of Hares, if that be true which Cardan and other Phylicians affirm, that Transmutation of fex is only foin opinion; and that these transfeminated persons were really men at first; although succeeding years produced the manifesto or evidence of their virilities. Which although intended and formed, was not at first excluded : and that the examples hereof have undergone no real or new transection, but were Androgynally born, and under some kind of Hermaphrodites. For though Galen do favour the opinion, that the distinctive parts of sexes are only different in Pofition, that is, inversion or protrusion; yet will this hardly be made out from the Anatomy of those parts. The testicles being so feated in the female, that they admit not of protrusion; and the neck of the matrix wanting those parts which are discoverable in the organ of virility.

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The second and most received acception, is, that Hares are male and female by conjunction of both fexes; and fuch as are found in mankind. Poetically called Hermaphrodites; supposed to be formed from the equality, or non victorie of either feed; carrying about them the parts of Man and Woman; although with great variety in perfection, fite and ability; not only as Aristotle conceived, with a constant impotency in one: but as later observers affirm, sometimes with ability of either vene-And therefore the providence of some Laws have thought good, that at the years of maturity they should elect one fex, and the errors in the other should suffer a severer punishment. Whereby endeavouring to prevent incontinency, they unawares enjoyned perpetual chaftity; for being executive in both parts, and confined unto one, they restrained a natural power, and ordained a partial virginity. Plate and some of the Rabbins proceeded higher; who conceived the first Man an Hermaphrodite; and Marcus Leo the learned Jew, in some sense hath allowed it; affirming that Adam in one suppositum without division, contained both Male and Female. And therefore whereas it is faid in the text, That God created man in his own Image, in the Image of God created he him, male and female created he them : applying the fingular and plural unto Adam, it might denote, that in one substance, and in himself he included both fexes, which was after divided, and the female called Woman, The opinion of Aristotle extendeth farther, from whose affertional men should be Hermaphrodites; for affirming that Women do not spermatize, and confer a place or receptacle rather then effential principles of generation, he deductively includes both fexes in mankind; for from the father proceed not only males and females, but from him also must Hermaphroditical and masculo-feminine generations be derived, and a commixtion of both fexes arise from the feed of one. But the Schoolmen have dealt with that fex more hardly then any other; who though they have not much disputed their generation, yet have they controverted their Refurrection, and raisen a querie, whether any at the last day should arise in the sex of Women; as may be observed in the supplement of Aquinas.

Confiffir got man and wo-

Now as we must acknowledge this Androgynal condition in Man, so can we not deny the like doth happen in beafts. Thus do we read in Pliny; that Neroes Chariot was drawn by four Hermaphroditical Mares, and Cardan affirms he also beheld one at Antwerp. And thus may we also concede, that Hates have been of both sexes, and some have ocularly confirmed it; but that the whole species or kind should be bisexous or double-fexed, we cannot affirm, who have found the parts of male and female respectively distinct and single in any wherein we have enquired: Bacch De Her- And the like fuccels had Bacchinus in fuch as he diffected. And whereas it is conceived, that being an harmless Animal and delectable food unto

maphroditie.

man, nature hath made them with double fexes, that actively and paffively performing and

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performing they might more numeroully increase; we forget an higher providence of nature whereby the especially promotes the multiplication of Hares, which is by superfetation; that is, a conception upon a conception, or an improvement of a second fruit before the first be excluded; preventing hereby the usual intermission and vacant time of generation; which is very common and frequently observable in Hares, mentioned long ago by Aristotle, Herodotus, and Pliny; and we have often observed, that after the first cast, there remain successive conceptions, and other younglings very immature, and far from their term of exclusion.

Nor need any man to question this in Hares, for the same we observe superferation doth sometime happen in Women; for although it be true, that upon possible in woconception the inward orifice of the matrix exactly closeth, fo that it men, and that commonly admitteth nothing after; yet falleth it out fometime, that in unto a perfect the act of coition, the avidity of that part dilateth it felf, and receiveth a fecond burden; which if it happen to be near in time unto the first, they do commonly both proceed unto perfection, and have legitimate exclusive ons, periodically succeeding each other. But if the superfetation be made with confiderable intermission, the latter most commonly proves abortives for the first being confirmed, engroffeth the aliment from the other. How ever therefore the project of Julia, seem very plausible, and that way infallible, when the received not her paffengers, before the had taken in her lading, yet was there a fallibility therein : for indeed any abfolute fecurity in the policy of adultery after conception. For the Matrix (which fome have called another Animal within us, and which is not subjected unto the law of our will) after reception of its proper Tenant, may yet receive a strange and spurious inmate. As is confirmable by many examples in Pliny; by Lariflea in Hippocrates and that merry one in Plantus urged also by Aristotle: that is, of Iphicles and Hereules; the one begat by Supiter, the other by Amphitryon upon Alemana as also in those super-conceptions; where one child was like the father, the other like the adulterer, the one favoured the fervant, the other resembled the master.

Now the grounds that begat, or much promoted the opinion of a double fex in Hares, might be some little bags or tumours, at first glance representing stones or Testicles, to be found in both sexes about the parts of generation ; which men observing in either sex, were induced to be lieve a masculine sex in both. But to speak properly, these are no Testis cles or parts official unto generation, but glandulous substances that feent to hold the nature of Emunctories. For herein may be perceived frender perforations, at which may be expressed a black and feeculent matter. If therefore from these we shall conceive a mixtion of sexes in Hares, with fairer reason we may conclude it in Bevers; whereof both fexes contain a double bag or Tumour in the groin, commonly called the Cod of

Castor, as we have delivered before.

Another ground were certain holes or cavities observable about the fiedge; which being perceived in Males, made some conceive there might be also a forminine nature in them. And upon this yery ground. the same opinion hath passed upon the Hyana, and is declared by Aristotle, and thus translated by Scaliger; Qued autem ainst utrinfque fexus babere genitalia, falfum eft, quod videtur effe fæmineum fub cauda eft fimile figura faminino, verum pervium non est; and thus is it also in Hares. in whom these holes, although they seem to make a deep cavity, yet do they not perforate the skin, nor hold a community with any part of generation: but were (as Pliny delivereth) esteemed the marks of their age, the number of those deciding their number of years. In which opinion what truth there is we shall not contend; for it in other. Animals there be authentick notations, if the characters of years be found in the horns of Cows, or in the Antlers of Deer; if we conjecture the age of Horses from joints in their docks, and undeniably presume it from their teeth; we cannot affirm, there is in this conceit, any affront unto nature; al-

though who ever enquireth shall find no affurance therein.

The last foundation was Retromingency or pissing backward; for men observing both sexes to urine backward, or aversly between their legs, they might conceive there was a forminine part in both; wherein they are deceived by the ignorance of the just and proper fite of the Pizzel, or part designed unto the Excretion of urine; which in the Hare holds not the common position, but is aversly feated, and in its distention enclines unto the Coccix or Scut. Now from the nature of this position, thereensueth anecessity of Retrocopulation, which also promoteth the conceit: for some observing them to couple without ascension, have not been able to judge of male or female, or to determine the proper fex in either. And to speak generally, this way of copulation is not appropriate unto Hares, non is there one, but many ways of coition: according to divers shapes and different conformations. For some couple laterally or sidewise, as Worms: some circularly or by complication, as Serpents: some pronely, that is, by contaction of the ventral parts in both, as Apes, Porcupines, Hedgehogs, and such as are termed Mollia, as the Cuttle-fish and the Purple; some mixtly, that is, the male ascending the female, or by application of the ventral parts of the one, unto the postick parts of the other, as most Quadrupeds : Some aversly, as all Crustaceous Animals, Lobsters, Shrimps, and Creviles, and also Retromingents, as Panthers, Tygers, and Hares. This is the constant Law of their Coition, this they observe and transgress not: onely the vitiofity of man hath acted the varieties hereof; nor content with a digression from sex or species, hath in his own kind run thorow the Anomalies of venery; and been so bold, not only to act, but represent to view, the irregular ways of Luft. in the mount it to gradulate be nitt Diologia nevilabetta C. H. A.B.

CHAP. XVIII.

of Moles, or Molls.

Hat Moles are blind and have no eyes, though a common opinion is received with much variety; some affirming only they have no fight, as Oppianus, the Proverb Talpa Cacior, and the word omnazia , or Talpitas, which in Hessebius is made the same with Cacitas: some that they have eyes, but no fight, as the text of Aristotle seems to imply; some neither eyes nor sight, as Albertus, Pliny, and the vulgar opinion: fome both eyes and fight, as Scaliger, Aldrovandue, and some others. Of which opinions the last with some restriction, is most confonant unto truth: for that they have eyes in their head is manifest unto any, that wants them not in his own; and are discoverable, not only in old ones, but as we have observed in young and naked conceptions, taken out of the belly of the Dam. And he that exactly enquires into the cavity of their cranies, may perhaps discover some propagation of nerves communicated unto these parts. But that the humours together with their coats are also distinct (though Galen seem to affirm it) trankendeth our discovery; for separating these little Orbs, and including them in magnifying Classes, we discerned no more then Aristotle mentions, F appaluar u have, that is, a black humour, nor any more if they be broken. That therefore they have eyes we must of necessity affirm; but that they be comparatively incomplete we need not to deny: So Galen affirms the parts of generation in women are imperfect, in respect of those of men, as the eyes of Moles in regard of other Animals; So Ariftotle terms them myruding, which Gaza translates Oblesos, and Scaliger by a word of imperfection inchoates.

Now as that they have eyes is manifest unto sense, so that they have sight not incongruous unto reason; if we call not in question the providence of this provision, that is, to assign the Organs, and yet deny the Office, to grant them eyes and withhold all manner of vision. For as the inference is fair, affirmatively deduced from the action to the Organ, that they have eyes because they see; so is it also from the organ to the action, that they have eyes, therefore some sight designed, if we take the intention of Nature in every species, and except the casual impediments, or morbosities in individuals. But as their eyes are more imperfect then others, so do we conceive of their sight or act of vision, for they will runagainst things, and hudling forwards fall from high places. So that they are not blind, nor yet distinctly see; there is in them no Cecity, yet more then a Cecutioncy; they have sight enough to discern the light, though not perhaps to distinguish of objects or colours; so are they not

exactly.

moles have eyes, A. A. Copps Naturalist.

here.

exactly blind, for light is one object of vision. And this (as Scaliger observeth) might be as full a fight as Nature sirst intended, for living in darkness under the earth, they had no further need of eyes then to avoid the light; and to be sensible when ever they lost that darkness of earth, which was their natural confinement. And therefore however Translators do render the word of Aristotle or Galen, that is, imperfector obless or incheates, it is not much considerable; for their eyes are sufficiently begun to finish this action, and competently perfect for this imperfect Vision.

And lastly, although they had neither eyes nor sight, yet could they not be termed blind. For blindness being a privative term unto sight, this appellation is not admittible in propriety of speech, and will overthrow the doctrine of privations; which presuppose positive forms or habits, and are not indefinite negations, denying in all subjects, but such alone wherein the positive habits are in their proper Nature, and placed without repugnation. So do we improperly say a Mole is blind, if we deny it the Organs or a capacity of vision from its created Nature; so when the text of folin had said, that person was blind from his nativity, whose eccity our Saviour cured, it was not warrantable in Nonnus to say he had no eyes at all, as in the judgment of Heinsius, he describeth in his paraphrase; and as some ancient Fathers affirm, that by this Miracle they were created in him. And so though the sense may be accepted, that Proverb must be candidly interpreted, which maketh sishes Mute; and calls them silent which have no voice in Nature.

Now this conceit is erected upon a misapprenhesion or mistake in the fymtomes of vision; men confounding abolishment, diminution and deprayement, and naming that an abolition of fight, which indeed is but an abatement. For if vision be abolished, it is called cacitas, or blindness; if depraved and receive its objects erroneously, Hallucination; if diminished, hebetudo visus, caligatio, or dimness. Now instead of a diminution or imperfect vision in the Mole, we affirm an abolition or total privation; instead of a caligation or dimness, we conclude a cecity or blindness. Which hath been frequently inferred concerning other Animals, so some affirm the Water-Rat is blind, so Sammonicus and Nicandir do call the Mus-Araneus the shrew or Ranny, blind: And because darkness was before light, the Layptians worshipped the same. So are Cacilia or Slow-worms accounted blind, and the like we affirm proverbially of the Beetle; although their eyes be evident, and they will flye against lights, like many other Infects, and though also Aristotle determines, that the eyes are apparent in all flying Insects, though other senses be obscure, and not preceptible at all. And if from a diminution we may infer a total privation, or affirm that other Animals are blind which do not acutely fee, or comparatively unto others, we shall condemn unto blindness many not so esteemed; for such as have corneous or horney

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eyes as Lobsters and crustaceous Animals, are generally dim-sighted; all Insects that have antenna, or long horns to feel out their way, as Butter-styes and Locusts; or their fore-legs so disposed, that they much advance before their heads, as may be observed in Spiders; and if the Eagle were judg, we might be blind our selves. The expression therefore of Scripture in the story of facob is surely with circumspection: And it came to pass when facob was old, and his eyes were dim, quando caligarunt ocubi, saith Jerome and Tremellius, which are expressions of diminution, and not of absolute privation.

Other concerns there are of Molls, which though not commonly opinioned are not commonly enough confidered: As the peculiar formation of their feet, the flender offa Fugalia, and Dogteeth, and how hard it is to keep them alive out of the Earth: As also the ferity and voracity of these animals; for though they be contented with Roots, and stringy parts of Plants, or Wormes under ground, yet when they are above it will sometimes tear and eat on another, and in a large glass wherein a Moll, a Toad, and a Viper were inclosed, we have known the Moll to dispatch them and to devour a good part of them both.

CHA.P. XIX.

Of Lampries.

7 Hether Lampries have nine eyes, as is received, we durst refer it unto Polyphemus, who had but one, to judg it. An error concerning eyes, occasioned by the error of eyes; deduced from the appearance of divers cavities or holes on either fide, which some call eyes that carelesly behold them; and is not only refutable by experience, but also repugnant unto Reason. For beside the monstrosity they fasten unto Nature, in contriving many eyes, who hath made but two unto any Animal, that is, one of each fide, according to the division of the brain; it were a superfluous inartificial act to place and settle so many in one plane; for the two extreams would fufficiently perform the office of fight without the help of the intermediate eyes, and behold as much as all feven joyned together. For the visible base of the object would be defined by these two; and the middle eyes, although they behold the same thing, yet could they not behold fo much thereof as thefe; fo were it no advantage unto man to have a third eye between those two he hath already; and the fiction of Argus seems more reasonable then this; for though he had many eyes, yet were they placed in circumference and positions of advantage, and so are they placed in several lines in Spiders. Again.

Book III

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All fenfe is fromthe brain.

Again, These cavities which men calls eyes are seated out of the head and where the Gils of other fish are placed; containing no Organs of fight, nor having any Communication with the brain. Now all fense proceeding from the brain, and that being placed (as Galen observeth) in the upper part of the body, for the fitter fituation of the eyes, and conveniency required unto fight; it is not reasonable to imagine that they are any where elfe, or deferve that name which are feated in other parts. And therefore we relinquish as fabulous what is delivered of Sternopthalmi, or men with eyes in their breaft, and when it is faid by Solomon, A wife mans eyes are in his head, it is to be taken in a fecond sense, and affordeth no objection. True it is that the eyes of Animals are feated with some difference, but in fanguineous animals in the head, and that more forward then the ear or hole of hearing. In quadrupedes, an regard of the figure of their heads, they are placed at some distance, in latiroftrous and flat-bild birds they are more laterally feated; and therefore when they look intently they turn one eye upon the object, and can convert their heads to see before and behind, and to behold two oppofite points at once. But at a more easie distance are they situated in men, and in the same circumference with the ear; for if one foot of the compass be placed upon the Crown, a circle described thereby will intersed, or pals over both the ears.

To what ufe the nine cyes in a Lamprie do ferve,

The error in this conceit consists in the ignorance of these cavitities, and their proper use in nature; for this is a particular disposure of parts, and a peculiar conformation whereby these holes and sluces supply the defect of Gils, and are affifted by the conduit in the head; for like cenceous Animals and Whales, the Lamprie hath a fiftula, spout or pipe at the backpart of the head, whereat it spurts out water. Nor is it only fingular in this formation, but also in many other; as in defect of bone, whereofithath not one; and for the spine or backbone, a cartilaginous Substance without any spondyles, processes or protuberance whatsoeyer, As also in the provision which Nature hath made for the heart; which in this Animal is very strangely secured, and lies immured in a cartilage or griftly substance. And lastly, in the colour of the liver: which is in the Male of an excellent grass green: but of a deeper colour in the Female,

and will communicate a fresh and durable yerdure.

CHAP. XX.

Of Snayls.

7 Hether Snayls have eyes some Learned men have doubted. For Scaliger terms them but imitations of eyes; and Aristotle upon consequence denyeth them, when he affirms that Testaceous Animals have no eyes. But this now feems sufficiently afferted by the help of exquisite Glasses, which discover those black and atramentous spots. or globales to be their eyes.

That they have two eyes is the common opinion, but if they have two eyes, we may grant them to have no less then four, that is, two in the larger extensions above, and two in the shorter and lesser horns below, and this number may be allowed in these inseriour and exanguious animals; fince we may observe the articulate and latticed eyes in Flics, and nine in some Spiders: And in the great Phalangium Spider of America,

we plainly number eight.

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But in fanguineous animals, quadrupeds, bipeds, or man, no fuch number can be regularly verified, or multiplicity of eyes confirmed. And therefore what hath been under this kind delivered, concerning the plurality, paucity or anomalous fituation of eyes, is either monitrous, fabulous, or under things never feen includes good fense or meaning. And so may we receive the figment of Argus, who was an Hieroglyphick of heaven, in those centuries of eyes expressing the stars; and their alternate wakings, the viciffitude of day and night. Which strictly taken cannot be admitted; for the subject of sleep is not the ege, but the common sense, which once asleep, all eyes must be at rest. And therefore what is delivered as an Embleme of vigilancy, that the Hare and Lion do fleep with one eye open, doth not evince they are any more awake then if they were both closed. For the open eye beholds in sleep no more then that which is closed; and no more one eye in them then two in other Animals that fleep with both open; as some by disease, and others naturally which have no eye-lids at all.

As for Polyphemus, although the story be fabulous, the monstrofity is not impossible. For the act of Vision may be performed with How things one eye; and in the deception and fallacy of fight, hath this advan- happen to be tage of two, that it beholds not objects double, or fees two things ble. for one. For this doth happen when the axis of the vilive cones, diffused from the object, fall not upon the same plane; but that which is conveyed into one eye, is more depressed or elevated then that which enters the other. So if beholding a Candle, we protrude either upward or downward the pupill of one eye, the object will

appear double; but if we shut the other eye, and behold it with one, it will their appear but single; and if we abduce the eye unto either corner, the object will not duplicate: for in that position the axis of the cones remain in the same plane, as is demonstrated in the opticks, and delivered by Galen, in his tenth De usu partium.

Relations also there are of men that could make themselves invisible, which belongs not to this discourse: but may serve as notable expressions of wise and prudent men, who so contrive their assists, that although their actions be manifest, their designs are not discoverable. In this acception there is nothing left of doubt, and siges Ring remaineth still amongst us: for vulgar eyes behold no more of wise men then doth the Sun: they may discover their exteriour and outward ways, but their interiour and inward pieces he only sees, that sees into their beings.

CHAP. XXI.

Of the Chameleon.

Oncerning the Chameleon there generally passeth an opinionthat it liveth only upon air, and is sustained by no other aliment. Thus much is in plain terms affirmed by Solinus, Plinz, and others, and by this periphrasis is the same described by Ovid. All which notwithstanding, upon enquiry I find the affertion mainly controvertible, and very much to sail in the three inducements of belief.

And first for its verity, although asserted by some, and traditionally delivered by others, yet is it very questionable. For beside *Elian*, who is seldom desective in these accounts: Aristotle distinctly treating hereof, hath made no mention of this remarkable propiety: which either suspecting its verity, or presuming its salsity, he surely omitted: for that he remained ignorant of this account it is not easily conceiveable: it being the common opinion, and generally received by all men. Some have positively denied it, as Augustinus, Niphus, Stobeus, Dalechampius, Fortunius, Licetus, with many more; others have experimentally refuted it, as namely Johanns Landius, who in the relation of Scaliger, observed a Chameleon to lick up a fly from his breast: But Bellonius hah been more satisfactorily experimental, not only affirming they feed on Flies, Cater-

Comment, in factorily experimental, not only affirming they feed on Flies, Cater-Ocell. Lucan. pillars, Beetles and other Infects, but upon exenteration he found these vith

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Animals in their bellies: whereto we might alto add the experimental decisions of the worthy Peireschins and learned Emanuel Vizzaniwe, in that Chameleon which had been often observed to drink water, and delight to feed on Meal-worms. And although we have not had the advantage of our own observation, yet have we recei-

ved the like confirmation from many ocular spectators.

As touching the verifimility or probable truth of this relation, feveral reasons there are which seem to overthrow it. For first, there are found in this Animal, the guts, the stomack, and other parts official unto nutrition; which were its aliment the empty reception of air, their provisions had been superfluous. Now the wisdom of nature abhorring superfluities, and effecting nothing in yain, unto the intention of these operations, respectively contriveth the Organs; and therefore where we find fuch Instruments, we may with strictness expect their actions; and where we discover them not, we may with fafety conclude the non-intention of their operations. So when we perceive that Bats have teats, it is not unreasonable to infer they fuckle their younglings with milk; but whereas no other flying Animal hath these parts, we cannot from them expect a viviparous exclusion; but either a generation of eggs, or some vermiparous separation, whose navel is within it self at first, and its nutrition after not connexedly depending of its original.

Again, Nature is to far from leaving any one part without its proper action, that the oft-times imposeth two or three labours upon one, fo the Pizel in Animals is both official unto Urine and to generation, but the first and primary use is generation; for some creatures enjoy that part which urine not. So the nostrils are useful both for respiration and smelling, but the principal use is smelling; for many have nostrils which have no lungs, ashithes, but none have lungs or respiration, which have not some shew, or some analogy of nostrils. Thus we perceive the providence of Nature, that is, the wildom of God, which disposeth of Nature prono part in vain, and some parts unto two or three uses, will not pro- vides no part vide any without the execution of its proper office, nor where there without its is no digestion to be made, make any parts inservient to that intention. proper function.

Beside the remarkable teeth, the tongue of this animal is a feeded.

Beside the remarkable teeth, the tongue of this animal is a second argument to overthrow this airy nutrication: and that not only in its proper nature, but also its peculiar figure. For of this part properly taken there are two ends; that is, the formation of the voice, and the execution of tast: for the voice, it can have no office in Chameleons, for they are mute Animals; as beside fishes, are most other forts of Lizards. As for their tast, if their nutriment be air, neither can it be an Instrument thereof; for the body of that element is ingustible, void of all fapidity, and without any action of the tongue, is by the rough artery or wezon conducted into the lungs. And therefore Pliny much forgets the itrictness,

MENTAL MANAGERA

Alimal, that feedeth only upon Air; which notwithstanding with the urine of an Ass, he commends as a magical Medicine upon our enemies.

The figure of the tongue feems also to overthrow the presump. tion of this aliment, which according to exact delineation, is in this Animal peculiar, and feemeth contrived for prey, For in fo little a creature it is at the least a palm long, and being it felf very flow in motion, hath in this part a very great agility; withall its food being flies and fuch as fuddenly escape, it bath in the tongue a mucous and slimy extremity, whereby upon a sudden emission it inviscates and tangleth those Insects. And therefore some have thought its name not unsuitable unto its nature; the nomination in Greek is a little Lion; not so much for the resemblance of shape, as affinity of condition; that is for vigilancy in its prey, and fudden rapacity thereof, which is performeth not like the Lion with its teeth, but a fudden and unexpected ejaculation of the tongue. This exposition is favoured by some, especially the old gloss upon Leviticus, whereby in the Translation of Ferome and the Septuagint, this Animal is forbidden; what ever it be, it feems as reasonable as that of Isidore, who derives this name à Camelo & Leone, as presuming herein resemblance with a Camell.

As for the possibility hereof, it is not also unquestionable; and wise men are of opinion, the bodies of Animals cannot receive a proper aliment from air; for beside that tast being (as Aristotle terms it) a kind of touch; it is required the aliment should be tangible, and fall under the palpable affections of touch; beside also that there is some sapor in all aliments, as being to be distinguished and judged by the gust; which cannot be admitted in air: Beside these, I say, if we consider the nature of aliment, and the proper use of air in respiration, it will very hardly sall under the name hereof, or properly attain the act of nutrication.

Requifices un-

And first concerning its nature, to make a perfect nutrition into the body nourished, there is required a transmutation of the nutriment, now where this conversion or aggeneration is made, there is also required in the aliment a familiarity of matter, and such a community or vicinity unto a living nature, as by one act of the soul analy be converted into the body of the living, and enjoy one common soul. Which cannot be effected by air, it concurring only with our sless in common principles, which are at the largest distance from life, and common also unto inanimated constitutions. And therefore when it is said by Fernelius, and afferted by divers others, that we are only nourished by living bodies, and such as are some way proceeding from them, that is, the fruits, effects, parts,

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or feeds thereof; they have laid out an object very agreeable unto affimulation; for these indeed are se to receive a quick and immediate conversion, as holding some community with our selves, and

containing approximate dispositions unto animation.

Secondly, (as is argued by Aristotle against the Pythagorians) whatloever properly nourisheth before its assimulation, by the action of natural heat it receiveth a corpulency or incrassation progresfional unto its conversion; which notwitstanding cannot be effected upon air; for the action of heat doth not condense but rarific that body, and by attenuation, rather then for nutrition, disposeth it for expulsion.

Thirdly, (which is the argument of Hippocrites) all aliment received into the body, must be therein a considerable space retained, and not immediately expelled. Now air but momentally remaining in our bodies, it hath no proportionable space for its conversion: only of length enough to refrigerate the heart; which having once performed, lest being it self heated again, it should suffocate that part, it maketh no stay, but hasteth back the same way it passed

in.

Fourthly, The use of air attracted by the lungs, and without which there is no durable continuation in life, is not the nutrition of parts, but the contemperation and ventilation of that fire always maintained in the forge of life; whereby although in some manner it concurreth unto nutrition, yet can it not receive the proper name of nueriment. And therefore by Hippocrates it is termed Alimentum non De Alimente. Alimentum, a nourithment and no nourithment. That is, in a large acception, but not in propriety of language; conserving the bodys not nourithing the same; nor repairing it by affimulation, but preferving it by ventilation; for thereby the natural flame is preserved: from extinction, and so the inviduum supported in some way like nutrition.

And though the air so entreth the Lungs, that by its nitrous Spirit, doth affect the heart, and several ways qualifie the blood; and though it be also admitted into other parts, even by the meat we chew, yet that it affordeth a proper nutriment alone, is not easily

made out.

Again, Some are so far from affirming the air to afford any nutriment, that they plainly deny it to be any Element, or that it entreth into mixt bodies as any principle in their compositions, but performeth other offices in the Universe; as to fill all-vacuities about the earth or beneath it, to convey the heat of the fun, to maintain fires and flames, to serve for the flight of volatils, respiration of breathing Animals, and refrigeration of others. And although we receive it as an Element, yet since the transmutation of Elements

Wherein Va-Dour is commonly milta: ken for air,

and fimple bodies, is not beyond great question, fince also it is no easie matter to demonstrate that air is so much as convertible into water: how transmutable it is into flesh, may be of deeper doubt.

And although the air attracted may be conceived to nourish the invisible flame of life, in as much as common and culinary flames are nourished by the air about them; we make some doubt whether air is the pabulous supply of fire, much less that flame is properly air kindled. And the same before us, bath been denied by the Lord of Verulam, in his Tract of life and death, and also by Dr. Jorden in his book of Mineral waters. For that which substantially maintaineth What the mat; the fire, is the combustible matter in the kindled body, and not the ambient air, which affordeth exhalation to its fuliginous atomes; nor that which causeth the flame properly to be termed air, but rather as he expresseth it, the accension of fuliginous exhalations, which contain an unctuofity in them, and arise from the matter of fuel, which opinion will falve many doubts, whereof the common conceit affordeth no folution.

> As first. How fire is stricken out of flints? that is, not by kindling the air from the collision of two hard bodies; for then Dia-

ter of Culinary or Kitchin fic is.

monds should do the like better then Flints: but rather from sulphureous inflamed and even vitrified effluviums and particles, as hath been obferved of late. The like faith Jorden we observe in canes and woods, that are uncluous and full of oyl, which will yield fire by frication, or collision, not by kindling the air about them, but the inflamable oyl within them. Why the fire goes out without air? that is, because the fuliginous exhalations wanting evaporation recoil upon the Why fire goes flame and choak it, as is evident in cupping glaffes; and the artifice of charcoals, where if the air be altogether excluded, the fire goes Why fome lamps include in those bodies have burned many hundred years, as that discovered in the Sepulchre of Tullia, the fifter of Cicero, and that of Olibius many years after, near Padua, because whatever was their matter, either a preparation of gold, or Naptha, the duration proceeded from the purity of their oyl which yielded no fuliginous exhalations to suffocate the fire; For if air had nourished the flame, it had not continued many minutes, for it would have been spent and wasted by the fire. Why a piece of flax will kindle, although it touch not the flame? because the fire extendeth further, then indeed it is visible, being at some distance from the week, a pellucide and transparent body, and thinner then the air it felf. Why Mettals in their liquation, although they intenfly heat the air above their surface, arise not yet into a flame, nor kindle the air about them; because their sulphur is more fixed, and they emit not inflamable exhalations. And lastly, why a lamp or candle bur-

neth only in the air about it, and inflameth not the air at a distance

from

out commonly wanting air, and why fometimes continued many ages in flame without fuel.

from it? because the flame extendeth not beyond the inflamable effluence, but closely adheres unto the original of its inflamation; and therefore it only warmeth, not kindleth the air about it. Which notwithstanding it will do, if the ambient air be impregnate with fubtile inflamabilities, and fuch as are of quick accention; as experiment is made in a close room; upon an evaparation of spirits of wine and Camphire; as subterraneous fires do sometimes happen; and as Creusa and Alexanders boy in the bath were set on fire by Naptha.

Lastly, The Element of air is so far from nourishing the body,

that some have questioned the power of water; many conceiving it enters not the body in the power of aliment, or that from thence there proceeds a substantial supply. For beside that some creatures drink not at all; Even unto our selves, and more perfect Animals, though many ways affiltent thereto, it performs no substantial nutrition, ferving for refrigeration, dilution of folid aliment, and its elixation in the stomack; which from thence as a vehicle it conveys through less accessible cavities, and so in a rorid substance through the capillary cavities, into every part; which having performed, it is afterward excluded by Urine, fweat and ferous separations. And this opinion furely possessed the Ancients; for when they so highly commended that water which is fuddenly hot and cold, which is without all favour, the lightest, the thinnest, and which will soonest boil Beans or Peale, they had no confideration of nutrition; whereunto had they had respect, they would have furely commended groß and turbid streams, in whose consusion at least, there might be contained some nutriment; and not jejune or limped water, nearer the simplicity of its Element. Although, I confess, our clearest wa- A seed of ters and such as seem simple unto sense, are much compounded un-plants and anito reason, as may be observed in the evaporation of large quantities mals contaiof water; wherein beside a terreous residence some salt is also found, ned in rain-waas is also observable in rain water; which appearing pure and emp- ter; ty, is full of seminal principles, and carrieth vital atomes of plants Zibavius tom. and Animals in it, which have not perithed in the great circulation of nature; as may be discovered from several Insects generated in rain water, from the prevalent fructification of plants thereby; and (beside the real plant of Cornerius) from vegetable figurations, upon the fides of glasses, so rarely delineated in frosts.

All which confidered, feverer heads will be apt enough to conceive the opinion of this Animal, not much unlike that of the Astomi, or men without mouths, in Pling; sutable unto the relation of the Mares in Spain, and their subventaneous conceptions, from the Western wind; and in some way more unreasoble then the figment of Rabican the famous horse in Ariosto, which being conceived by flame and wind, never tafted grass, or

fed on any grosser provender then air; for this way of nutrition was answerable unto the principles of his generation. Which being of no airy, but gross and seminal in the Chameleon; unto its conservation there is required a solid pasture, and a food congene-

rous unto the principles of its nature.

The grounds of this opinion are many; the first observed by Theophrastus, was the inflation or swelling of the body, made in this Animal upon inspiration or drawing in its breath; which people observing, have thought it to feed upon air. But this effect is rather occasioned upon the greatness of its lungs, which in this Animal are very large, and by their backward situation, afford a more observable dilatation; and though their lungs be less, the like inflation is also observable in Toads, but especially in Sequentoises.

A fecond is the continual hiation or holding open its mouth, which men observing, conceive the intention thereof to receive the aliment of air; but this is also occasioned by the greatness of its lungs; for repletion whereof not having a sufficient or ready supply by its nostrils; it is enforced to dilate and hold open the jaws.

The third is the paucity of blood observed in this Animal, scarce at all to be found but in the eye, and about the heart; which defect being observed, inclined some into thoughts, that the air was a sufficient maintenance for these exanguious parts. But this desect or rather paucity of blood, is also agreeable unto many other Animals, whose solid nutriment we do not controvert; as may be observed in other sorts of Lizards, in Frogs and divers Fishes; and therefore an Horse-leech will not readily sasten upon every sish; and we do not read of much blood that was drawn from Frogs by Mice, in that samous battel of Homer.

The last and most common ground which begat or promoted this opinion, is the long continuation hereof without any visible food, which some observing, precipitously conclude they eat not any atall. It cannot be denied it is (if not the most of any) a very abstemious Animal, and such as by reason of its frigidity, paucity of blood, and latitancy in the winter (about which time the observations are often made) will long fubfift without a visible sustentation. But a like condition may be also observed in many other Animals; for Lizards and Leeches, as we have made trial, will live fome months without sustenance; and we have included Snails in glasses all winter, which have returned to feed again in the spring. Now these notwithstanding, are not conceived to pass all their lives without food; for so to argue is fallacious, and is moreover sufficiently convicted by experience. And therefore probably other relations are of the same verity, which are of the like affinity; as is the conceit of the Rhintace in Persia, the Canis Levis of America, and the Manucodiata or bird of Paradife in India.

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To affign a reason of this abitinence in Animals, or declare how without a supply there ensueth no destructive exhaustion, exceedeth the limits and intention of my discourse. Fortunius Licetus in his excellent Tract, de bis qui din vivunt sine alimento, hath very ingeniously attempted it; deducing the cause hereof from an equal conformity of natural heat and moitture, at least no considerable exuperancy in either; which concurring in an unactive proportion, the natural heat confumeth not the moisture (whereby ensueth no exhauftion) and the condition of natural moisture is able to resist the slender action of heat (whereby it needeth no reparation) and this is evident in Snakes, Lizards, Snails, and divers Infects latitant many months in the year; which being cold creatures, containing a weak heat in a crass or copious humidity, do long subfist without nutri-For the activity of the agent, being not able to over-mafter the relistance of the patient, there will ensue no dependition. And upon the like grounds it is, that cold and phlegmatick bodies, and (as Hippocrates determineth) that old men will best endure fasting. Now the same harmony and stationary constitution, as it happeneth in many species, so doth it fall out sometime in Individuals. For we read of many who have lived long time without aliment; and befide deceits and impostures, there may be veritable Relations of fome, who without a miracle, and by peculiarity of temper, have far out fasted Elias. Which notwithstanding doth not take off the miracle; for that may be miraculously effected in one, which is naturally causable in another. Some naturally living unto an hundred; unto which age, others not withflanding could not attain without a miracle.

CHAP. XXII.

Of the Ostrich.

The common opinion of the Ostrich, Struthiocamelus or Sparrow-Camel conceives that it digesteth Iron; and this is consirmed by the affirmations of many; beside swarms of others, Rhodiginus in his presections taketh it for granted, Johannes Languius in his
Epistles pleadeth experiment for it; the common picture also confirmeth it, which usually describeth this Animal with an horshoe in
its mouth. Notwithstanding upon enquiry we find it very questionable, and the negative seems most reasonably entertained; whose

verity indeed we do the rather defire, because hereby we shall relieve our ignorance of one occult quality; for in the lift thereof it is accounted, and in that notion imperiously obtruded upon us. For my part, although I have had the fight of this Animal, I have not had the opportunity of its experiment, but have received great

occasion of doubt, from learned discourses thereon.

- For Aristotle and Oppianus who have particularly treated hereof are filent in this fingularity; either omitting it as dubious, or as the Comment faith, rejecting it as fabulous. Pliny speaketh generally, affirming only, the digestion is wonderful in this Animal; Alian delivereth, that it digesteth stones without any mention of Iron: Leo Africanns, who lived in those Countries wherein they most abound, speaketh diminutively, and but half way into this asfertion: Surdam ac simplex animal est, quicquid invenit, absque delettu, usque ad ferum devorat: Fernelius in his second De abditis rerum causis, extenuates it, and Riolanus in his Comment thereof positively denies it. Some have experimentally refuted it, as Albertus Magnus; and most plainly vlysses Aldrovandus, whose words are these; Ego ferri frusta devorare, dum Tridenti essem, observavi, sed que incocta rursus excerneret, that is, at my being at Trent, I obseryed the Offrich to swallow Iron, but yet to exclude it undigested again.

Now beside experiment, it is in vain to attempt against it by Philosophical argument, it being an occult quality, which contemns the law of Reason, and defends it self by admitting no reason at all. As for its possibility we shall not at present dispute; nor will we affirm

alter Iron.

How(possibly) that Iron indigested, receiveth in the stomack of the Offrich no althe flomack of teration at all; but if any fuch there be, we suspect this effect tathe Offrichmay ther from some way of corrosion, then any of digestion; not any liquid reduction or tendance to chilification by the power of natural heat, but rather some attrition from an acide and vitriolous humidiey in the stomack, which may absterse and shave the scorious parts thereof. So rusty Iron crammed down the the throat of a Cock, will become terse and clear again in its gizzard: So the Counter which according to the relation of Amatus remained a whole year in the body of a youth, and came out much consumed at last; might fuffer this diminution, rather from fharp and acide humours, then the strength of natural heat, as he supposeth. So silver swallowed and retained fome time in the body, will turn black, as if it had been dipped in Aqua fortis, or some corrosive water, but Lead will remain unaltered; for that mettal containeth in it a sweat falt or fugar, whereby it relifteth ordinary corrolion, and will not easily dissolve even in Aqua fortis. So when for medical uses, we take down the filings of Iron or Steel, we must not conceive it passeth unaltered from us; for though the groffer parts be excluded again,

vet are the dissoluble parts extracted, whereby it becomes effectual in deopilations; and therefore for speedier operation we make extinctions, infusions, and the like, whereby we extract the falt and active parts of the Medicine; which being in folution, more eafily enter the veins. And this is that the Chymilts mainly drive at in the What the Chyattempt of their Aurum Potabile; that is, to reduce that indigesti- mills would ble substance into such a form as may not be ejected by siege, but en- have by their ter the cavities, and less accessible parts of the body, without corrosion. Jurum Posa-The ground of this conceit is its swallowing down fragments of

Iron, which men observing, by a froward illation, have therefore conceived it digesteth them; which is an inference not to be admitted, as being a fallacy of the confequent, that is, concluding a position of the consequent, from the position of the antecedent. For many things are swallowed by Animals, rather for condiment, gult or medicament, then any substantial nutriment. So Poultrey, and especially the Turkey, do of themselves take down stones; and we have found at one time in the gizzard of a Turkey no less then feven hundred. Now these rather concur unto digestion, then are themselves digested; for we have found them also in the guts and excrements; but their descent is very slow, for we have given them stones and small pieces of Iron, which eighteen days after we have found remaining in the gizzard. And therefore the experiment of Langins and others might be fallible, whilst after the taking they expected it should come down within a day or two after. Thus also we swallow Cherry-stones, but void them unconcocted, How Cherryand we usually say they preserve us from surfet; for being hard bo- stones may be dies they conceive a strong and durable heat in the stomack, and so thought to prevent the crudities of their fruit: And upon the like reason do cu-prevent surfets linary operators observe, that flesh boiles best, when the bones are Chessies, boiled with it. Thus dogs will eat grass, which they digest not: Thus Camels to make the water fapid, do raise the mud with their feet: Thus horses will knable at walls, Pigeons delight in salt stones. Rats will gnaw Iron, and Aristotle saith the Elephant swalloweth stones. And thus may also the Offrich swallow Iron; not as his proper aliment, but for the ends above expressed, and even as we observe the like in other Animals.

And whether these fragments of Iron and hard substances swallowed by the Offrich, have not also that use in their stomacks, which they have in other birds; that is, in some way to supply the use of teeth, by commolition, grinding and compression of their proper aliment, upon the action of the strongly conformed muscles of the itomack; as the honor'd Dr. Harvey discourseth, may also be considered.

What effect therefore may be expected from the Itomack of an Ofrich by application alone to further digestion in ours, beside the experimental refute of Galen, we refer it unto confiderations above alledged;

Or whether there be any more credit to be given unto the Medicine of Elian, who affirms the stones they swallow have a peculiar vertue for the eyes, then that of Hermolaus and Pliny drawn from the urine of this Animal; let them determine who can swallow so strange a transmission of qualities, or believe that any Bird or flying Ani-

mal doth separately and distinctly urine beside the Bat.

That therefore an Offrich will swallow and take down Iron, is easily to be granted: that oftentimes it pass entire away, if we admit of ocular teltimony not to be denied. And though some experiment may also plead, that sometimes they are so altered, as not to be found or excluded in any discernable parcels: yet whether this be not effected by some way of corrosion, from tharp and dissolving humidities, rather then any proper digestion, chilifactive mutation, or alimental conversion, is with good reason doubted.

CHAP. XXIII.

Of Unicorns horn.

Reat account and much profit is made of Unicorns horn, at least J of that which beareth the name thereof; wherein notwithstanding, many I perceive suspect an Imposture, and some conceive there is no fuch Animal extant. Herein therefore to draw up our determinations; beside the several places of Scripture mentioning this Animal (which some may well contend to be only meant of the Rhinoceros) we are so far from denying there is any Unicorn at all, that we affirm there are many kinds thereof. In the number of Quadrupedes, we will concede no less then five; that is, the Indiwhat DET fig- an Ox, the Indian Ass, the Rhinoceros, the Oryx, and that which is more eminently termed Monoceros, or Unicornis. Some in the list of fishes; as that described by Olaus, Albertus and others: and and fome Unicorns we will allow even among Infects; as those four kinds of nalicornous Beetles described by Muffetus.

Scondly, Although we concede there be many Unicorns, yet are we still to feek; for whereunto to affix this Horn in question, or to determine from which thereof we receive this magnified Me-

dicine,

Some doubt to be made nifieth in Scripture.

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dicine, we have no affurance, or any fatisfactory decision. For although we fingle out one, and eminently thereto affign the name of the Unicorn; yet can we not be secure what creature is meant thereby; what constant shape it holdeth, or in what number to be received. For as far as our endeavours discover, this animal is not uniformly described, but differently set forth by those that undertake it. Pliny affirmeth it is a fierce and terrible creature; Varto- The Unicorn mannus a tame and mansitete Animal: those which Garcias ab Hor- how variously to described about the cape of good hope, were beheld with heads reported by like horses; those which Vartomannus beheld, he described with Authors. the head of a Deer; Pliny, Elian, Solinus, and after these from ocular assurance, Paulus Venetus affirmeth, the feet of the Unicorn are undivided, and like the Elephants: But those two which Vartomannus beheld at Mecha, were as he describeth, footed likea Goat. As Elian describeth, it is in the bigness of an Horse, as Vartomannus, of a Colt; that which Thevet speaketh of was not so big as an Heifer; but Paulus Venetus affirmeth, they are but little less then Elephants. Which are discriminations very material, and plainly declare, that under the same name Authors describe not the same Animal: so that the unicorns Horn of one, is not that of another, although we proclaim an equal vertue in all.

Thirdly, Atlhough we were agreed what Animal this was, or differed not in its description, yet would this also afford but little satisfaction; for the Horn we commonly extol, is not the same with that of the Ancients. For that in the description of Animal and Pliny was black: this which is shewed amongst us is commonly white, none black; and of those five which Scalager beheld, though one spadiceous, or of a light red, and two enclining to red, yet

was there not any of this complexion among them-

Fourthly, What Horns soever they be which pass amongst us, they are not surely the Horns of any one kind of Animal, but must proceed from several sorts of Vnicorns. For some are wreathed, some not: That samous one which is preserved at St. Dennis near Paris, hath wreathy spires, and chocleary turnings about it, which agreeth with the description of the Vnicorns Horn in Alian. Those two in the treasure of St. Mark are plain, and best accord with those of the Indian Ass, or the descriptions of other Vnicorns: That in the Repository of the electour of Saxome is plain and not hollow, and is believed to be a true Land Vnicorns Horn. Albertus Magnus describeth one ten foot long, and at the base about thirteen inches compass: And that of Antwerp which Goropius Becanus describeth, is not much inferiour unto it; which best agree unto the descriptions of the Sea-Unicorns; for these, as Olaus affirmeth, are of that strength and bigness, as able to penetrate the

ribs of ships. The same is more probable, because it was brought from Island, from whence, as Becanus affirmeth, three other were brought in his days: And we have heard of some which have been found by the Sca-fide, and brought unto us from America. So that while we commend the Unicorns Horn, and conceive it peculiar but unto one animal; under apprehension of the same vertuel we use very many; and commend that effect from all, which every one

confineth unto some one he hath either seen or described.

Fifthly, Although there be many Unicorns, and confequently many Horns, yet many there are which bear that name, and currently pals among us, which are no Horns at all. Such are those fragments and pieces of Lapis Ceratites, commonly termed Cornu fossile, whereof Batius had no less then twenty several forts presented him for wnicorns Horn. Hereof in subterraneous cavities, and under the earth there are many to be found in feveral parts of Germany; which are but the lapidescencies and petrifactive mutations of hard bodies; fometimes of Horn, of teeth, of bones, and branches of trees. whereof there are some so imperfectly converted, as to retain the odor and qualities of their originals; as he relateth of pieces of Ash and Walnut. Again, in most, if not all which pass amongst us, and are extolled for precious Horns, we discover not an affection common unto other Horns; that is, they mollifie not with fire, they foften not upon decoction or infusion, nor will they afford a jelly, or mucilaginous concretion in either; which notwithstanding we may effect in Goats horns, Sheeps, Cows and Harts horn, in the Horn of the Rhinoceros, the horn of the Pristis or Sword fish. Nor do they become friable or eafily powderable by Philosophical calcination, that is, from the vapor or steam of water, but split and rift contrary to others horns. Briefly, many of those commonly received, and whereof there be so many fragments preserved in England, are not only no Horn, but a substance harder then a bone, that is, parts of the tooth of a Morfe or Sez-horfe; in the midst of the folider part contained a curdled grain, which is not to be found in Ivo-This in Northern Regions is of frequent use for hafts of knives or hilts of fwords, and being burnt becomes a good remedy for fluxes: but Antidotally used, and exposed for Unicorns Horn, it is an infufferable delusion; and with more veniable deceit, it might have been practised in Harts.horn.

uled in England, what it

Vnicors Horn

commonly

The like deceit may be practifed in the teeth of other Sea animals; in the teeth also of the Hippopetamus, or great Animal which frequenteth the River Wilns: For we read that the same was anciently used instead of Ivory or Elephants tooth. Nor is it to be omitted, what hath been formerly suspected, but now confirmed by Olans Wormius, and Thomas Bartholinus and others, that those long

horns

Horns preserved as pretious rarities in many places, are but the teeth of Narhwales; to be found about Island, Greenland and other Northern regions; of many feet long, commonly wreathed, very deeply fastned in the upper jaw, and standing directly forward, graphically described in Bartholinus, according unto one sent from a Bi-De Vniconnu. Thop of Island, not separated from the crany. Hereof Mercator hath taken notice in his description of Island: some relations hereof there seem to be in Purchas, who also delivereth that the Horn at Windsor, was in his second voyage brought hither by Frobisher. These before the Northern discoveries, as unknown rarities, were carried by Merchants into all parts of Europe; and though sound on the Sea-shore, were sold at very high rates; but are now become more common, and probably in time will prove of little esteem; and the bargain of Julius the third, be accounted a very hard one, who stuck not to give many thousand crowns for one.

Nor is it great wonder we may be so deceived in this, being daily gulled in the brother Antidote Bezoar; whereof though many be false, yet one there passet amongst us of more intollerable delusion; somewhat paler then the true stone, and given by women in the extremity of great diseases, which notwithstanding is no stone, but seems to be the stony seed of some Lithospermum or greater Grumwell; or the Lobus Echinatus of Clusius, called also the Bezoar Nut; for being broken, it discovereth a kernel of a leguminous smell and tast, bitter like a Lupine, and will swell and sprout if set in the ground, and therefore more serviceable for issues.

then dangerous and virulent difeafes. Sixthly, Although we were fatisfied we had the Unicorns Horn, yet were it no injury unto reason to question the efficacy thereof, or whether those vertues pretended do properly belong unto it. For what we observe, (and it escaped not the observation of Paulus 70. vins many years past) none of the Ancients ascribed any medicinal or antidotal vertue unto the Vnicorns Horn; and that which Elian extolleth, who was the first and only man of the Ancients who spake of the medical vertue of any Vnicorn, was the Horn of the Indian Als; whereof, faith he, the Princes of those parts make bowls and drink therein, as preservatives against Poyson, Convulsions, and the Falling-fickness. Now the description of that Horn is not agreeable unto that we commend; for that (faith he) is red above, white below, and black in the middle; which is very different from ours, or any to be seen amongst us. And thus, though the description of the Vnicorn be very ancient, yet was there of old no vertue afcribed unto it; and although this amongst us receive the opinion of the same vertue, yet is it not the same Horn whereunto the Antients ascribed it.

Laftly,

Expulfive of

Poilons.

Lastly, Although we allow it an Antidotal efficacy, and such as the Ancients commended, yet are there some vertues ascribed thereto by Moderns not easily to be received; and it hath furely faln out in this, as other magnified medicines, whose operations effects. al in some discases, are presently extended unto all. That some Antidotal quality it may have, we have no reason to deny; for since Elks Hoofs and Horns are magnified for Epileplies, fince not only the bone in the heart, but the Horn of a Deer is Alexipharmacal, and ingredient into the confection of Hyacinth, and the Electuary of Maximilian; we cannot without prejudice except against the efficacy of this. But when we affirm it is not only Antidotal to proper venoms, and substances destructive by qualities we cannot express: but that it resisteth also Sublimate, Arsenick, and poysons which kill by second qualities, that is, by corrosion of parts; I doubt we exceed the properties of its nature, and the promifes of experiment will not fecure the adventure. And therefore in such extremities, whether there be not more probable relief from fat oyly substances. which are the open tyrants over falt and corrofive bodies, then precious and cordial medicines which operate by fecret and disputable proprieties; or whether he that swallowed Lime, and drank down Mercury water, did not more reasonably place his cure in milk. butter or oyl, then if he had recurred unto Pearl and Bezoar, common reason at all times, and necessity in the like case would eafily determine.

Since therefore there be many Vnicorns; fince that whereto we appropriate a Horn is so variously described, that it seemeth either never to have been seen by two persons, or not to have been one animal; Since though they agreed in the description of the animal, yet is not the Horn we extol the same with that of the Ancients; Since what Horns soever they be that pass among us, they are not the Horns of one, but several animals: Since many in common use and high esteem are no Horns at all: Since if there were true Horns, yet might their vertues be questioned: Since though we allowed some vertues, yet were not others to be received; with what security a man may rely on this remedy, the mistress of fools hath already instructed some, and to wisdom (which is never to wise to learn)

it is not too late to consider.

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CHAP. XXIV.

That all Animals of the Land, are in their kind in the Sea.

Hat all Animals of the Land, are in their kind in the Sea, although received as a principle, is a tenent very questionable, and will admit of restraint. For some in the Sea are not be matcht by any enquiry at Land, and hold those shapes which terrestrious forms approach not; as may be observed in the Moon fish, or Orthragorifcus, the feveral forts of Raia's, Torpedo's, Oysters, and many more, and some there are in the Land which were never History of maintained to be in the Sea, as Panthers, Hyæna's, Camels, Sheep, fishes, Molls, and others, which carry no name in Ichyology, nor are to be found in the exact descriptions of Rondoletius, Gesner, or Aldrovandus.

Again, Though many there be which make out their nominations, as the Hedg-hog, Sea-serpents and others; yet are there also very many that bear the name of animals at Land, which hold no refemblance in corporal configuration; in which account we compute Vulpecula, Canis, Rana, Passer, Cuculus, Aselius, Turdus, Lepus, &c. Wherein while some are called the Fox, the Dog, the Sparrow or Frog fish: and are known by common names with those at Land; yet as their describers attest, they receive not these appell tions from a total fimilitude in figure, but any concurrence in common accidents, in colour, condition or fingle conformation. As for Seahorses which much confirm this affertion; in their common descriptions, they are but Crotesco deliniations which fill up empty spaces in Maps, and meer pictorial inventions, not any Physical shapes: futable unto those which (as Pliny delivereth) Praxiteles long ago fet out in the Temple of Domitius. For that which is commonly called a Sca-horse, is properly called a Morse, and makes not out that shape. That which the Ancients named Hippocampus is a little animal about fix inches long, and not preferred beyond the claffis of Infects. That which they termed Hippopotamus an amphibious animal, about the River Wile, so little resembleth an horse, that as Mathiolus observeth, in all except the feet, it better makes out a fwine. That which they termed a Lion, was but a kind of Lobfter: that which they called the Bear, was but one kind of Crab: and that which they named Bos marinus, was not as we conceive a fish resembling an Ox, but a Skait or Thornback, so named from its bigness, expressed by the Greek word Bous, which is a prefix of augmentation to many words in that language.

And

And therefore although it be not denied that fome in the water do carry a justifiable resemblance to some at Land, yet are the major part which bear their names unlike; nor do they otherwise refemble the creatures on earth, then they on earth the constellations which pass under animal names in heaven : nor the Dog fish at Sea much more make out the Dog of the Land, then that his cognominal or name-sake in the heavens. Now if from a similitude in some, it be reasonable to infer a correspondence in all, we may draw this analogy of animals upon plants; for vegetables there are which carry a near and allowable similitude unto animals. We might also conde flirp. rario- clude that animal shapes were generally made out in minerals : for leveral stones there are that bare their names in relation to animals or their parts, as Lapis anguinus, Conchites, Echinites, Encephalites, A. gopthalmus, and many more; as will appear in the Wrtiers of Minerals, and especially in Bætius and Aldrovandus.

Fab. column. ribus, orchis, Cercopisheco. phora, Anthropophora.

> Moreover if we concede, that the animals of one Element, might bear the names of those in the other, yet in strict reason the watery productions should have the prenomination: and they of the land rather derive their names, then nominate those of the Sea. For the watery plantations were first existent, and as they enjoyed a priority in form, had also in nature precedent denominations : but falling not under that Nomenclature of Adam, which unto terrestrious animals affigned a name appropriate unto their natures : from fucceeding spectators they received arbitrary appellations; and were respectively denominated unto creatures known at Land; who in themselves had independent names and not to be called after them, which were created before them.

Lastly, By this affertion we restrain the hand of God, and abridge

the variety of the creation; making the creatures of one Element, but an acting over those of another, and conjoyning as it were the species of things which stood at distance in the intellect of God; and though united in the Chaos, had feveral feeds of their creation. For although in that distinguishe mass, all things seemed one; yet separated by the voice of God, according to their species, they came out in incommunicate varieties, and irrelative feminalities, as well as divided places; and so although we say the world made in fix days, yet was there as it were a world in every one; that is, a

diffinct creation of diffinguisht creatures; a diffinction in time of creatures divided in nature, and a feveral approbation and furvey in eye-

ry one.

CHAP. XXV.

Concerning the common course of Diet, in making choice of some Animals, and abstaining from eating others.

Why we confine our food unto certain Animals, and totally reject some others; how these dictinctions crept into several Nations; and whether this practice be built upon solid reason, or chiefly supported by custom or opinion; may admit confideration.

For first there is no absolute necessity to feed on any; and if we resist not the stream of Authority, and several diductions from holy Scripture: there was no Sarcophagie before the flood; and without Eating of the eating of stesh, our fathers from vegetable aliments, preserved Flesh, themselves unto longer lives, then their posterity by any other. For Gen. 1.29, whereas it is plainly said, I have given you every herb which is upon the sace of all the earth, and every tree, to you it shall be The natural for meat; presently after the deluge, when the same had destroyed getables important the nature of vegetables, by an expression of enlarge-paired by the ment, it is again delivered: Every moving thing that liveth, shall be deluge, meat for you, even as the green herb, have I given you all things. Gen. 9.3.

And therefore although it be faid that Abel was a Shepherd, and it be not readily conceived, the first men would keep sheep, except they made food thereof: great Expositors will tell us, that it was partly for their skins, wherewith they were cloathed, partly for their milk, whereby they were sustained; and partly for Sacrifices, which

they also offered.

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And though it may seem improbable, that they offered sless, yet cat not thereof; and Abel can hardly be said to offer the sirklings of his slock, and the sat or acceptable part, if men used not to tast the same, whereby to raise such distinctions: some will consine the cating of sless unto the line of Cain, who extended their luxury, and consined not unto the rule of God. That if at any time the line of Seth cat sless, it was extraordinary, and only at their sacrifices; or else (as Grotius hinteth) if any such practice there were, it was not from the beginning; but from that time when the waies of men were corrupted, and whereof it is said, that the wickedness of mans heart was great; the more righteous part of mankind pro-Fless (probably conforming unto the diet prescribed in Paradise, and the state of bly) not so innocency. And yet however the practice of men conformed, this common bewas the injunction of God, and might be therefore sufficient, with fore the slood out the food of sless.

That

That they fed not on flesh, at least the faithful party before the flood, may become more probable, because they refrained the same for some time after. For so was it generally delivered of the golden age and raign of Saturn; which is conceived the time of Woah, before the building of Babel. And he that considereth how agreeable this is unto the traditions of the Gentiles; that that age that was of one tongue: that Saturn devoured all his fons but three, that he was the son of Oceanus and Thetis; that a Ship was his Symbole, that he taught the culture of vineyards, and the art of husbandry, and was therefore described with a sickle, may well conceive, these traditions had their original in Woah. Nor did this practice terminate in him, but was continued at least in many after: as (beside the Pythagorians of old, Bannyans now in India, who upon fingle opinions refrain the food of flesh) ancient records do hint or plainly deliver. Although we descend not so low, as that of Asclepiades delivered by Porphyrius, that men began to feed on flesh in the raign of Pygmaleon brother of Dido, who invented several torments, to punish the eaters of flesh.

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Nor did men only refrain from the flesh of beasts at first, but as some will have it, beasts from one another. And if we should believe very grave conjecturers, carnivorous animals now, were not flesh devourers then, according to the expression of the divine provision for them. To every beaft of the earth, and to every fowl of the air, I have given every green herb for meat, and it was fo. is also collected from the store laid up in the Ark; wherein there feems, to have been no fleshly provision for carnivorous Animals. For of every kind of unclean beaft there went but two into the Ark: and therefore no stock of slesh to sustain them many days, much less almost a year.

Gen. 1 16.

But when ever it be acknowledged that men began to feed on flesh, yet how they betook themselves after to particular kinds thereof, with rejection of many others, is a point not clearly determined. As for the distinction of clean and unclean bealts, the original is obscure, and salveth not our practice, For no Animal is naturally unclean, or hath this character in nature; and therefore whether in this distinction there were not some mystical intention: whether Moses after the distinction made of unclean beafts, did not name these so before the flood by anticipation: whether this distinction before the flood, were not only in regard of facrifices, as that unclean before delivered after was in regard of food: (for many were clean for food, which were unclean for facrifice) or whether the denomination were but comparative, and of heafts less commodious for food, although not fimply bad, is not yetrefolved. And as for the same distinction in the time of Moles, long af.

How Mofes might diffinguith beal's into clean and the flood.

ter the flood, from thence we hold no restriction, as being no rule unto Nations beside the Jems in dietetical consideration, or natural choice of diet, they being enjoyned or prohibited certain soods upon remote and secret intentions. Especially thereby to avoid community with the Gentiles upon promiscuous commensality: or to divert them from the Idolatry of Egypt whence they came, they were enjoyned to eat the Gods of Egypt in the food of Sheep and Oxen. Withall in this distinction of Animals the consideration was hieroglyphical; in the bosom and inward sense implying an abstinence from certain vices symbolically intimated from the nature of those animals; as may be well made out in the prohibited meat of Swine, Cony, Owl, and many more.

At least the intention was not medical, or such as might oblige unto conformity or imitation; For some we refrain which that Law alloweth, as Locusts and many others; and some it prohibiteth, which are accounted good meat in strict and Medical censure: as (beside many sishes which have not sinns and scales,) the Swine, Cony and Hare, a dainty dish with the Ancients; as is delivered by Galen, testified by Martial, as the popular opinion implied, that men grew fair by the stell thereof: by the diet Inter quadruo of Cato, that is Hare and Cabbage; and the Jun nigrum, or peder matrya Black broath of the Spartans, which was made with the blood and prima Lepus.

bowels of an Hare.

And if we take a view of other Nations, we shall discover that they refrained many meats upon the like considerations. For in some the abstinence was symbolical; so Pythagoras enjoyned abstinence from sish: that is, luxurious and dainty dishes; So according to Heroditus, some Egyptians refrained swines stell, as an impure and fordid animal: which whoever but touched, was fain to wash himself.

Some abstained superstitiously or upon religious consideration:
So the Syrians refrained Fish and Pigeons; the Egyptians of old,
Dogs, Ecles and Crocodiles; though Leo Africanus delivers, that
many of late, do eat them with good gust: and Heroditus also affirmeth, that the Egyptians of Elephantina (unto whom they were not
sacred,) did eat thereof in elder times: and Writers testify, that they
are eaten at this day in India and America. And so, as Casar re- Lib 5 de bello,
ports, unto the ancient Britains it was piaculous to tast a Goose, Gall.
which dish at present no table is without.

Unto some Nations the abstinence was political and for some civil advantage: So the Thessals refrained Storks, because they destroyed their Serpents; and the like in sundry animals is observa-

ble in other Nations.

And under all these considerations were some animals refrained so

the fews abstained from swine at first symbolically, as an Emblem of impurity; and not for fear of the Leprose, as Tacitus would put upon them. The Cretians superstitionsly, upon tradition that Tupiter was fuckled in that countrey by a Sow. Some Egyptians politically, because they supplyed the labour of plowing by rooting up the ground. And upon like confiderations perhaps the Phanicians and Syrians fed not on this Animal: and as Solinus reports, the Arabians also and Indians. A great part of mankind refraining one of the best foods, and fuch as Pythagoras himself would eat; who, as Aristo. xenus records refused not to feed on Pigs.

Aul. Gell. lib. 4.

in great refo much efteemed now.

Moreover while we fingle out several dishes and reject others, Certain diffies the selection seems but arbitrary, or upon opinion; for many are quest with the commended and cryed up in one age, which are decryed and nau-Ancients, not feated in another. Thus in the dayes of Mecenas, no flesh was preferred before young Asses; which notwithstanding became abominable unto succeeding appetites. At the table of Heliogabalus the combs of Cocks were an effected fervice; which country stomacks will not admit at ours, . The Sumen or belly and dugs of Iwine with Pig, and sometimes beaten and bruised unto death: the womb of the same Animal, especially that was barren, or else had cast her young ones, though a tough and membranous part, was magnified by Roman Pallats; whereunto nevertheless we cannot perswade our stomacks. How Alec, Muria, and Garum, would humour our gust I know not; but furely few there are that could delight in their Cyceon; that is, the common draught of Honey, Cheefe, parcht Barley-flower, Oyl and Wine; which notwithstanding was commended mixture, and in high esteem among them. We mortifie our selves with the diet of fish, and think we fare coursly if we refrain from the flesh of other animals. But antiquity held another opinion hereof: When Pythagoras in prevention of luxury advised, not so much as to tast on fish. Since the Rhodians were wont to call them clowns that eat flesh : and fince Plato to evidence the temperance of the noble Greeks before Troy, observed, that it was not found they fed on fish, though they lay so long near the Helespont; and was only observed in the companions of Menelaus, that being almost starved, betook themselves to fishing about Pharos.

Ody 1. 40.

Nor will (I fear) the attest or prescript of Philosophers and Physitians, be a sufficient ground to confirm or warrant common practice, as is deducible from ancient Writers, from Hippocrates, Non de reciba. Galen, Simeon, Sethi: and the later tracts of Nonnus and Caftellanus. So Aristotle and Albertus commend the flesh of young Hawks: Galen the flesh of Foxes about Autumn when they feed on Grapes: but condemneth Quails, and ranketh Geese but with Ostriches: which notwithstanding; present practice and every table extolleth. Men

ria. Caft.de efu car-Gal. Atim fac. lib. s.

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think they have fared hardly, it in times of extremity they have defeended so low as Dogs: but Galen delivereth, that young, fat and Gal. Simpl. fat. gelded, they were the food of Many Nations: and Hippocrates ran-lib. s. Keth the fleth of Whelps with that of Birds: who also commends definperfit. Them against the Spleen, and to promote conception. The opinion in Galens time, which Pliny also followeth, deeply condemned Horse-flesh, and conceived the very blood thereof destructive; but no diet is more common among the Tartars, who also drink their blood. And though this may only seem an adventure of Northern stomacks, yet as Herodotus tells us, in the hotter clime of Persia, the same was a convivial dish, and solemnly eaten at the feasts of their nativities: whereat they dressed whole Horses, Camels and Asses, contemning the Poverty of Grecian feasts, as unsurnished of dishes sufficient to fill the bellies of their guests.

Again, While we confine our diet in several places, all things almost are eaten, if we take in the whole earth: for that which is resulted in one country, is accepted in another, and in the collective judgment of the world, particular distinctions are overthrown. Thus were it not hard to shew, that Tigers, Elephants, Camels, Mice, Bats and others, are the food of several countries; and Lerius with others delivers, that some Americans eat of all kinds, not refraining Toads and Serpents: and some have run so high, as not to spare the stell of man: a practise inexcusable, nor to be drawn into example, a diet beyond the rule and largest indulgence of God.

As for the objection against beasts and birds of prey, it acquitteth not our practice, who observe not this distinction in sishes: nor regard the same in our diet of Pikes, Perches and Eels; Nor are we excused herein, if we examine the stomacks of Mackerels, Cods, and Whitings. Nor is the soulness of food sufficient to justific our choice; for (beside their natural heat is able to convert the same into laudable aliment) we resuse not many whose diet is more impure then some which we reject; as may be considered in hogs, ducks, puets, and many more.

Thus we perceive the practife of diet doth hold no certain course, nor solid rule of selection or confinement; Some in an indistinct voracity eating almost any, others out of a timerous pre-opinion, refraining very many. Wherein indeed necessity, reason and Physick, are the best determinators. Surely many animals may be fed on, like many plants; though not in alimental, yet medical considerations: Whereas having raised Antipathies by prejudgement or education, we often nauseate proper meats, and abhor that diet which disease or temper requireth.

Now whether it were not best to conform unto the simple diet of our A problem. fore-fathers, whether pure and simple waters were not more health-

full then fermented liquors; whether there be not an ample fufficiency without all flesh, in the food of honey, oyl, and the several parts of milk: in the variety of grains, pulses, and all forts of fruits since either bread or beverage may be made almost of all? whether nations have rightly confined unto several meats? or whether the common food of one country be not more agreeable unto another? how indistinctly all tempers apply unto the same, and how the diet of youth and and old age is consounded: were considerations much concerning health, and might prolong our days, but must not this discourse.

CHAP. XXVI.

Of Sperma-Ceti, and the Sperma-Ceti Whale.

Hat Sperma-Ceti is, men might justly doubt, fince the learned Hofmannus in his work of Thirty years, faith De medicamen plainly, Nescio quid sit. And therefore need not wonder at the variety of opinions; while some conceived it to be flos maris, and many, a bituminous substance floating upon the sea.

That it was not the spawn of the Whale, according to vulgar conceit, or nominal appellation Phylosophers have always doubted not easily conceiving the Seminal humour of Animals, should be in-

flamable; or of a floating nature.

That it proceedeth from a Whale, beside the relation of Clusius and

other learned observers, was indubitably determined, not many years since by a Sperma-Ceti Whale, cast on our coast of Norfolk Which, to lead on further inquiry, we cannot omit to inform. It contained no less then fixty foot in length, the head somewhat peculiar, with a large prominency over the mouth; teeth only in the lower Jaw, received into fleshly sockets in the upper. The Weight of the largest about two pound: No gristly substances in the mouth, commonly called Whale-bones; Only two short sinns seated forwardly on the back; the eyes but small, the pizell large, and pro-

Near Hunstan minent. A lesser Whale of this kind above twenty years ago, was

The discription of this Whale seems omitted by Gesner, Rondeletim, and the first Editions of Aldrovandus; but describeth the latin impression of Parens, in the Exoticks of Clusius, and the natural history

Near Wells

history of Nirembergius; but more amply in Icons and figures of

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Mariners (who are not the best Nomenclators) called it a Jubar1214, or rather Gibbartas. Of the same appellation we meet with
one in Rendeletius, called by the French Gibbar, from its round
and Gibbous back. The name Gibbarta we find also given unto
one kind of Greenland Whales: But this of ours seemed not to answer
the Whale of that denomination; but was more agreeable unto the
Trumpa or Sperma-Ceti Whale: according to the account of our
Greenland describers in Purchas. And maketh the third among the
eight remarkable Whales of that Coast.

Out of the head of this Whale, having been dead divers days, and under putrifaction, flowed fireams of oyl and Sperma-Ceti; which was carefully taken up and preferved by the Coasters. But upon breaking up, the Magazin of Sperma-Ceti, was found in the head lying in folds and courses, in the bigness of goose eggs, encompassed with large flaxic substances, as large as a mans head, in

form of hony-combs, very white and full of oyl.

Some resemblance or trace hereof there seems to be in the Physiter or Capidolio of Rondeletins; while he delivers, that a fatness more liquid then oyl, runs from the brain of that animal; which being out, the Reliques are like the scales of Sardinos pressed into a mass; which melting with heat, are again concreted by cold. And this many conceive to have been the fish which swallowed Jonas. Although for the largeness of the mouth, and frequency in those seas, it may possibly be the Lamia.

Some part of the Sperma-Ceti found on the shore was pure, and needed little deparation; a great part mixed with fetid oyl, needing good preparation, and frequent expression, to bring it to a slakie consistency. And not only the head, but other parts contained it. For the carnous parts being roasted, the oyl dropped out, an axungious and thicker parts subsiding; the oyl it self contained also much

in it, and still after many years some is obtained from it.

Greenland Enquirers seldom meet with a Whale of this kind: and therefore it is but a contingent Commodity, not reparable from any other. It slameth white and candent like Camphire, but dissolveth not in aqua fortis, like it. Some lumps containing about two ounces, kept ever since in water, afford a fresh, and sloselous smell. Well prepared and separated from the oyl, it is of a substance unlikely to decay, and may out last the oyl required in the Composition of Mathiolus.

Of the large quantity of oyl, what first came forth by expression from the Sperma-Ceti, grew very white and clear, like that of Almonds or Ben. What came by decoction was red. It was found

gulateth quickly with cold, and the newer foonest. It feems different from the oyl of any other animal, and very much frustrated the expectation of our foap boylers, as not incorporating or mingling with their lyes. But it mixeth well with painting Colours, though hardly drieth at all. Combers of wooll made use hereof, and Country people for cuts, aches and hard tumors. It may prove of good Medical use; and serve for a ground in compounded oyls and Balsams, Distilled, it affords a strong oyl, with a quick and piercing water. Upon, Evaporation it gives a balsame, which is better performed

with Turpentine distilled with Sperma-Ceti.

Had the abominable scent permitted, enquiry had been made into that strange composure of the head, and hillock of flesh about it Since the Work-men affirmed, they met with Sperma-Ceti before they came to the bone, and the head yet preserved, seems to confirm the same. The Sphincters inserving unto the Fistula or spout, might have been examined, fince they are so notably contrived in other cetaceous Animals; as also the Larynx or Throtle, whether answerable unto that of Dolphins and Porpofes in the strange composure and figure which it maketh. What figure the stomack maintained in this Animal of one jaw of teeth, fince in Porpofes, which abound in both, the ventricle is trebly divided, and fince in that formerly taken nothing was found but Weeds and a Loligo. The heart, lungs, and kidneys, had not escaped; wherein are remarkable differences from Animals of the land, likewife what humor the bladder contained, but especially the seminal parts, which might have determined the differ rence of that humor, from this which beareth its name.

In vain it was to rake for Ambergreece in the panch of this Levia. than, as Greenland discovers, and attests of experience distate, that they sometimes swallow great lumps thereof in the Sea; insufferable fetour denying that enquiry. And yet if, as Paracellus encourageth, Ordure makes the best Musk, and from the most fetid substances may be drawn the most odoriferous Essences; all that had not Vespasians Nose, might boldly swear, here was a subject fit for such

extractions,

Cui dulcie odor sueri ex re qualibes,

CHAP. XXVII.

Compendiously of Sundry Tenents concerning other Animals, which examined, prove cither false or dubious.

A Nd first from great Antiquity, and before the Melody of Syrens, the Musical note of Swans hath been commended, and that they fing most sweetly before their death. For thus we read in Place, that from the opinion of Metempsuchosis, or transmigratie on of the fouls of men into the bodies of beafts most sutable unto their humane condition, after his death, Orphens the Musician became a Swan. Thus was it the bird of Apollo the god of Musick by the Greeks; end an Hieroglyphick of mulick among the Egyptians, from whom the Greeks derived the conception; hath been the affirmation of many Latines, and hath not wanted affectors almost from .

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All which notwithstanding, we find this relation doubtfully recei- Of Swam, ved by Elian, as an hear-lay account by Bellonius, as a falle one and their fings : by Pliny, expresly refuted by Mandius in Athenaus; and severe-ing before ly rejected by Scaliger; whose words unto Cardan are these. Cyoni vero cantu suavissimo quem cum parente mendaciorum Gracia jastare ausus es, ad Luciani tribunal, apud quem novi aliquid dicas, flatuo. Authors also that countenance it, speak not satisfactorily of it. Some affirming they fing not till they die; fome that they fing, yet die not. Some speak generally, as though this note were in all; fome but particularly, as though it were only in some; some in places remote, and where we can have no trial of it; others in places where every experience can refute it; as Aldrovandus upon relation delivered, concerning the Musick of the Swans on the river of Trames near London. .

Now that which countenanceth, and probably confirmeth this The figuration opinion, is the strange and unusual conformation of the wind pipe, or on to be found vocal organ in this animal: observed first by Aldrovandus, and con-not in comceived by fome contrived for this intention. For in its length it mon Swans. far exceedeth the gullet; and bath in the cheft a finuous revolution, that is, when it arifeth from the lungs, it afcendeth not directly unto the throat, but descending first into a capsulary reception of the breast bone; by a Serpentine and Trumpet recurvation it ascendeth again into the neck; and fo by the length thereof a great quantity of air is received, and by the figure thereof a Musical modulation effected. But to speak indifferently, this formation of

the Weazon, is not peculiar unto the Swan, but common also unto the Platea or Shovelard, a bird of no Musical throat; And as Aldrovandus confesseth, may thus be contrived in the Swan to contain a larger stock of air, whereby being to feed on weeds at the bottom, they might the longer space detain their heads under water. But were this formation peculiar, or had they unto this effect an advantage from this part: yet have they a known and open disadvantage from another; that is, a flat bill. For no Latirostrous animal (whereof nevertheless there are no slender numbers) were ever commended for there note, or accounted among those animals which have been instructed to speak.

When therefore we consider the dissention of Authors, the falsity of relations, the indisposition of the Organs, and the immusical note of all we ever beheld or heard of; if generally taken and comprehending all Swans, or of all places, we cannot assent thereto. Surely he that is bit with a Tarantula, shall never be cured by this Musick; and with the same hopes we expect to hear the harmony of the

Spheres.

Of the Pea-

2. That there is a special propriety in the flesh of Peacocks, roalt or boiled, to preferve a long time incorrupted, hath been the affertion of many; stands yet confirmed by Austin, De Civitate Dei: by Great Sempronius, in Aldrovandus; and the same experiment we can confirm our selves, in the brawn or fleshly parts of Peacoks so hanged up with thred, that they touch no place whereby to contract a moisture; and hereof we have made trial both in summer and winter. The reason, some, I perceive, attempt to make out from the ficcity and driness of its flesh, and some are content to rest in a secret propriety thereof. As for the siccity of the flesh, it is more remarkable in other animals, as Eagles, Hawks, and birds of prey; That it is a propriety or agreeable unto none other, we cannot, with reason admit: for the same preservation, or rather incorruption we have observed in the flesh of Turkeys, Capons, Hares, Partridge Venison, suspended freely in the air, and after a year and a half, dogs have not refused to eat them.

As for the other conceit, that a Peacok is ashamed when he looks on his legs, as is commonly held, and also delivered by Cardan; beside what hath been said against it by Scaliger; let them believe that hold specificial desormities; or that any part can seem unhandsome to their eyes, which hath appeared good and beautiful unto their makers. The occasion of this conceit, might first arise from a common observation, that when they are in their pride, that is, advance their train, if they decline their neck to the ground, the hinder grow too weak, and suffer the train to fall. And the same in some degree is also observable in Turkeys.

3. That

3. That Storks are to be found, and will only live in Republikes Of the Stork. or free States, is a petty conceit to advance the opinion of popular policies, and from Antipathies in nature, to disparage Monarchical government. But how far agreeable unto truth, let them confider who read in Pliny, that among the Theffalians who were governed by Kings, and much abounded with Serpents, it was no less then capital to kill a Stork. That the Ancient Egyptians honoured them, whose government was from all times Monarchical. That Bellonius affirmeth, men make them nefts in France. That relations make them commong in Persia, and the dominions of the great Turk. And laftly, how feremy the Prophet delivered himself unto his countrey- 1er. 8. 7. men, whole government was at that time Monarchical. The Stork in the heaven knowing her appointed time, the Turtile, Crane and Swallow observe the time of their coming, but my people know not the judgment of the Lord. Wherein to exprobate their stupidity. he induceth the providence of Storks. Now if the bird had been unknown, the illustration had been obscure, and the exprobation not the tacket and

4. That a Bittor maketh that mugient noise, or as we term of the Bitton it Bumping, by putting its bill into a reed as most believe, or as Bellonius and Aldrovandus conceive, by putting the same in water or mud, and after a while retaining the air by fuddenly excluding it again, is not lo easily made out. For my own part, though after diligent enquiry, Lould never behold them in this motion; Notwithstanding by others whose observations we have expressy requested, we are informed, that some have beheld them making this noise on the shore, their bils being far enough removed from reed or water; that is, first strongly attracting the air, and unto a manifelt differtion of the neck, and prefertly after with great contention and violence excluding the fame again. As for what Authers affirm of putting their bill in water or mud, it is also hard to make out. For what may be observed from any that walketh the Fens, there is little intermission, nor any observable pawle, between the drawing in and fendeth forth of their breath. And the expiration or breathing forth doth not only produce a noise, but the inspiration or hasting in of the air, affordeth a sound that may be heard lide, and to continue until above the twelfth doon adgitt alfomla

Now the reason of this strange and peculiar nosse, is deduced from the conformation of the wind-pipe, which in this bird is different from other volatiles. For as the upper extream it hath no fit Larinx, or throttle to qualify the found, and at the other end, by two branches derived it self into the durings? Which division confilters only of Semicircular fibers, and such as attain but half way round the part; By which formation they are distable into larger capacities,

\$c6. 15.

and are able to contain a fuller proportion of air; which being with violence fent up the weazon, and finding no relistance by the Larinx, it issues forth in a sound like that from caverns, and such as sometimes subterraneous eruptions, from hollow rocks afford. As Aristotle observeth in a Problem, and is observable in pitchers, bottles, and that instrument which Aponensis upon that Problem describeth, wherewith in Aristotles time Gardiners affrighted birds.

Whether the large perforations of the extremities of the weazon, in the abdomen, admitting large quantity of ayr within the cavity of its membrans, as it doth in Frogs; may not much affift this magiency or boation, may also be considered. For such as have beheld them making this noise out of the water; observe a large distention in their bodies; and their ordinary note is but like that of a Raven.

Of Whelps.

4. That whelps are blind nine days and then begin to fee, is the common opinion of all, and some will be apt enough to descend unto oaths upon it. But this I find not answerable unto experience, for upon a strict observation of many, I have scarce found any that fee the ninth day, few before the twelfth, and the eyes of some not open before the fourteenth day. And this is agreeable unto the determination of Aristotle: who computeth the time of their anopsie or non-vision by that of their gestation. For some, faith he, do go with their young the fixt part of a year, two days over or under, that is, about fixty days or nine weeks; and the whelps of these fee not till twelve days. Some go the fifth part of a year, that is, seventy one days, and these faith he, see not before the fourteenth day. Others do go the fourth part of the year, that is, three whole months, and thefe, faith he, are without fight no less then seventeenth days. Wherein although the accounts be different, yet doth the least thereof exceed the term of nine days, which is so generally received. And this compute of Aristotle doth generally overthrow the common cause alleadged for this effect, that is, a precipitation or over-halty exclusion before the birth be perfect, according unto the vulgar Adage, Festinans canis caces parit catules: for herein the whelps of longest gestation, are also the latest in vision. The manner hereof is this. At the first littering, their eyes are faltly closed, that is, by coalition or joining together of the eyelids, and so continue untill about the twelfth day; at which time they begin to leparate, and may be easily divelled or parted afunder; they open at the inward Canthis or greater Angle of the eye, and so by degrees dilate themselves quite open. An effect very strange, and the cause of much obscurity, wherein as yet mens enquiries are blind, and fatisfaction not easily acquirable. What ever it be, thus much we may observe, these animals are only excluded without fight, which are mulciparous and multifidous, that is, which have ma-

ny at a litter, and have also their feet divided into many portions. For the Swine, although multiparous, yet being bifulcous, and ondy cloven hoofed, is not excluded in this manner, but farrowed

with open eyes, as other bifulcous animals.

6. The Antipathy between a Toad and a Spider, and that they Of a Toad and poilonoully deltroy each other, is very famous, and folemn stories a Spiderhave been written of their combats; wherein most commonly the victory is given unto the Spider. Of what Toads and Spiders it is to be understood would be considered. For the Phalangium and deadly Spiders, are different from those we generally behold in England. However the verity hereof, as also of many others, we cannot, but defire; for hereby we might be furely provided of proper Antidotes in cases which require them; But what we have obferved herein, we cannot in reason conceal; who having in a Glass included a Toad with several Spiders, we beheld the Spiders without relistance to sit upon his head and pass over all his body; which at last upon advantage he swallowed down, and that in few hours, unto the number of seven. And in the like manner will Toads also ferve Bees, and are accounted enemies unto their Hives.

7. Whether a Lion be also afraid of a Cock, as is related by Of a Lion and many, and believed by most, were very easie in some places to a Cock. make trial. Although how far they stand in fear of that animal, we may sufficiently understand, from what is delivered by Camerarius, whose words in his Symbola are these; Wostris temporibus in Aula serenissimi Principis Bavaria, unus ex Leonibus miris saltibus in vieinam cujusdam domus aream sese dimisit, ubi Gallinaciorum cantum aut clamores nibil reformidam, ipfos una cum plurimis gallinis devoravit. That is, In our time in the Court of the Prince of Bavaria, one of the Lions leaped down into a Neighbours yard, where nothing regarding the crowing or noise of the Cocks, he cat them up with many other Hens. And therefore a very unfafe defensative it as against the fury of this animal (and surely no better then Virginity or bloud Royal) which Pliny doth place in Cock broth: For herewith, faith he whoever is anointed (especially if Garlick be boi- De facificite ded therein) no Lion or Panther will touch him. But of an higher magia nature it were, and more exalted Antipathy, if that were certain which Procles delivers, that folary Damons, and fuch as appear in the shape of Lions, will disappear and vanish, it a Cock be presented upon them.

8. It is generally conceived, an Ear-wig hath no Wings, and is reckoned amongst impennous infects by many; but he that shall marrowly observe them, or shall with a needle put a side the short and theathy cases on their back, may extend and draw forth two wings of a proportionable length for flight, and larger then in many

flies. The experiment of Fennius is yet more perfect, who with Rush or Briffle so pricked them as to make them flie.

Of Worms

5. That Worms are exanguious Animals, and such as have no blood at all, is the determination of Phylosophy, the general opinion of Scholars, and I know not well to distent from thence my felf. It so, surely we want a proper term whereby to express that humour in them which so strictly resembleth bloud: and we refer it unto the discernment of others what to determine of that red and languineous humor, found more plentifully about the Torquis or carneous Circle of great Worms in the Spring, affording in Linnen or Paper an indiscernable tincture from bloud. Or wherein that different from a vein, which in an apparent blew runneth along the body, and it dexterously pricked with a lancet, emitteth a red drop, which pricked on either side it will not readily afford.

In the upper parts of Worms, there are likewise found certain white and oval Glandulosities, which Authors term Eggs, and in magnifying Glasses, they also represent them; how properly, may also be enquired; since if in them there be distinction of Sexes, these Eggs are to be found in both. For in that which is presumed to be their coition, that is, their usual complication, or lateral adhesion above the ground, dividing suddenly with two Knives the adhering parts of both, I have found these Eggs in either.

to. That Flies, Bees, &c. Do make that noise or humming sound by their mouth, or as many believe with their wings only, would be more warily afferted, if we consulted the determination of Ariflatle, who as in sundry other places, so more expresly in his book of respiration, affirmeth this sound to be made by the illission of an inward spirit upon a pellicle or little membrane about the precinct or pectoral division of their body. If we also consider that a Bee or Flie, so it be able to move the body, will buz, though its head be off; that it will do the like if deprived of wings, reserving the head, whereby the body may be the better moved. And that some also which are big and lively will hum without either head or wings.

Nor is it only the bearing upon this little membrane, by the in-ward and con-natural fpirit as Ariffotle determines, or the outward air as Scaliger conceiveth, which affordeth this humming noise, but most of the other parts may also concur hereto; as will be manifest, if while they hum we lay our finger on the back or other parts; for thereupon will be felt a serrous or jarring motion like that which happeneth while we blow on the teeth of a comb through paper; and so if the head or other parts of the trunk be touched with oyl, the found will be much impaired, if not destroyed: for those being also dry and membranous parts, by attrition of the spirit

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do help to advance the noise: And therefore also the sound is strongest in dry weather, and very week in rainy season, and toward winter; for then the air is moist, and the inward spirit growing weak, makes a languid and dumb allision upon the parts.

TI. There is found in the Summer a kind of Spider called a Of a Taina, Tainct, of a red colour, and so little of body that ten of the largest will hardly outway a grain; this by Country people is accounted a deadly poison unto Cows and Horses; who, if they suddenly die, and swell thereon, ascribe their death hereto, and will commonly lay, they have licked a Tainct. Now to fatisfie the doubts of men we have called this tradition unto experiment; we have given hereof, unto Dogs, Chickens, Calves and Horses, and not in the fingular number; yet never could find the least disturbance enfae. There must be therefore other causes enquired of the sudden death and swelling of cattle; and perhaps this insect is mistaken. and unjustly accused for some other. For some there are which from elder times have been observed pernicious unto cattle, as the Buprestis or Burstow, the Pityocampe or Eruca Pingum, by Diofcorides, Galen and Atins, the Staphilinus described by Aristotle and others, or those red Phalangious Spiders like Cantharides mentioned by Muffetas. Now although the animal may be mistaken and the opinion also falle, yet in the ground and reason which makes men most to doubt the verity hereof, there may be truth enough, that is, the inconfiderable quantity of this infect. For that a poison cannot destroy in so small a bulk; we have no reason to affirm. For if as Leo Africanus reporteth, the tenth part of a grain of the poifon of Nubia, will dispatch a man in two hours; if the bite of a granum Nubia. Viper and sting of a Scorpior, is not conceived to impart so much: if the bite of an Asp will kill within an hour, yet the impression scarce visible, and the poilon communicated not ponderable; we cannot as impossible reject this way of destruction; or deny the power of death in fo narrow a circumscription.

thence perpetual lights are pretended, and waters said to be distilled worm. which afford a lustre in the night; and this is afferted by Cardan, Albertus, Gaudentinus, Mizaldus, and many more. But hereto we cannot with reason affent: for the light made by this animal depends much upon its life. For when they are dead they shine not, nor alwaies while they live; but are obscure or light, according to the protrustion of their luminous parts, as observation will instruct us. For this slammeous light is not over all the body, but nly visible on the inward side; in a small white part near the tail. When this is full and seemeth protruded, there ariseth a slame of a circular sigure and Emerald green colour which is discernable in any D d 2

dark place in the day, but when it falleth and feemeth contracted. the light disappeareth, and the colour of the part only remaineth Now this light, as it appeareth and disappeareth in their life, so doth it go quite out at their death. As we have observed in some, which preserved in fresh grass have lived and shined eighteen days; but as they declined, and the luminous humor dryed, their light grew languid, and at last went out with their lives. Thus also the Tor. pedo, which alive hath a power to stupisie at a distance, hath none upon contaction being dead, as Galen and Rondeletine particularly experimented. And this hath also disappointed the mischief of those intentions, which study the advancement of poisons; and fancy deftructive compositions from Asps or Vipers teeth, from Scorpions or Hornet stings. For these omit their efficacy in the death of the individual, and act but dependantly on their forms. And thus far alfo those Philosophers concur with us, which held the Sun and Stars were living creatures, for they conceived their lustre depended on their lives; but if they ever died, their light must also perish.

It were a Notable peice of Art to translate the light from the Bononian Stone into another Rody, he that would attempt to make a shining Water from Glow-worms, must make trial when the Splendent part is fresh and turgid. For even from the great American Glow worms, and Flaming Flies, the light declineth as the lumin

nous humor dryeth.

Now whether the light of animals, which do not occasionally thine from contingent causes, be of Kin unto the light of Heaven; whether the invisible flame of life received in a convenient matter, may not become visible, and the diffused atherial light make little Stars by conglobation in idoneous parts of the compositum: whether also it may not have some original in the seed and spirit analogous unto the Element of Stars, whereof some glympse is observable in the little resulgent humor, at the first attempts of formation: Philon

fophy may yet enquire.

True it is, that a Glow-worm will afford a faint light, almost adays space when many will conceive it dead; but this is a missale in the compute of death, and term of disanimation; for indeed, it is not then dead, but if it be distended will slowly contract it self again, which when it cannot do, it ceaseth to shine any more. And to speak strictly, it is no easie matter to determine the point of death in Insects and Creatures who have not their vitalities radically confined unto one part; for they are not dead, when they cease to move or afford the visible evidences of life; as may be observed in Flies, who when they appear even desperate and quite for saken of their forms; by vertue of the Sun or warm as hes will be revoked; anto life, and perform its sunctions again.

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Now whether this lustre, a while remaining after death, dependent not still upon the first impression, and light communicated or raised from an inward spirit, subsisting a while in a moist and apt recipient, nor long continuing in this, or the more remarkable indian. Glow-worm; or whether it be of another Nature, and proceedeth from different causes of illumination; yet since it confessedly subsistent so little a while after their lives, how to make perpetual lights, and sublunary moons thereof as is pretended, we rationally doubt, though not so sharply deny, with Scaliger and Musseus.

regyricks of their providence we alwaies meet with this, that to prevent the growth of Corn which they store up, they bite off the end thereof: And some have conceived that from hence they stave Nemalah a their name in Hebrew: From whence ariseth a conceit that Corn Namal circumwill not grow if the extreams be cut of broken. But herein we cidit find no security to prevent its germination; as having made trial in grains, whose ends cut off have notwithstanding suddenly sprotted and accordingly to the Law of their kinds; that is, the roots of barley and oats at contrary ends, of wheat and rye at the same. And therefore some have delivered that after rainy weather they dry these grains in the Sun; which if effectual, we must conceive to be made in a high degree and above the progression of Malt; for that Malt will grow, this year hath informed us, and that unto a perfect car.

And if that be true which is delivered by many, and we shall a natural vifurther experiment, that a decoction of Toad-stools if poured upon cissinde of geearth, will produce the same again: If Sow thistles will abound in neration in
places manured with dung of Hogs, which seeds much upon that
plant: If Horse-dung reproduceth outs: If winds and rains will transport the seminals of plants; it will not be easie to determine where
the power of generation ceaseth. The sorms of things may lie deeper then we conceive them; seminal principles may not be dead in
the divided atoms of plants; but wandering in the ocean of nature,
when they hit upon proportionable materials, may unite, and return
to their visible selves again.

But the prudence of this animal is by knawing, peireing, or other wife, to defroy the little nebbe or principle of germination. Which notwithstanding is not cally discoverable, it being no ready business to meet with such grains in Anthils, and he must dig deep, that will to

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feck them in the Winter.

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CHAP. XXVIII les bus thoris said ant

of Clare when he will state small or Nature, and proceed

Of the Chicken.

Of Eggs.

he show that our confes of illumination ; yet fince it confessedly Hat a Chicken is formed out of the yelk of the Egg, was the opinion of lome Ancient Philosophers. Whether it be not the nutriment of the Pullet, may also be considered: Since umbilical veffels are carried unto it. Since much of the yelk remaineth af. ter the Chicken is formed; Since in a Chicken newly hatched, the Agmack is tipaged, yellow, and the belly full of yelk, which is drawn in at the navel or vessels towards the vent, as may be discerned in Chickens within a day or two before exclusion.

Whether the Chicken be made out of the white, or that be not alforits alimentaring likewise very questionable: Since an umbilical yellal is derived unto it : Since after the formation and perfed

thape of the Chicken, much of the white remaineth.

Whether it be not made out of the grando, gallature, germ of tred of the Egg. As, Aquapendente informeth us a feemed to many of doubt: for as the blunter end it is not discovered after the Chic ken is formed; by this also the yelk and white are continued, whereby, it may conveniently receive its nutriment from them both.

Alle Now that from such flender materials, nature should effect this production it is no more then is observed in other animals ; and even in grains and kernels, the greatest part is but the nutriment

of that generative particle, fo disproportionable unto it.

A greater difficulty in the doctrine of Eggs, is, how the fperm of the Cock prolificates and makes the oval conception fruitful, or how it attaineth unto every Egg. fince the vicellary or place of the yelk is very high: Since the ovary or part where the white involveth it, is in the second region of the matrix, which is somewhat long and inverted: Since also a Cock will in one day fertilate the whole recemation or cluster of Eggs, which are not excluded in many weeks after. 194 Kan san ve a

Buy these at last, and how in the Cicatricula or little pale circle formation first beginneth, how the Grando or tredle, are but the poles and establishing particles of the tender membrans, firmly conferving the floating parts, in their proper places, with many other observables, that ocular Philosopher, and singular discloser of truth. Dr. Harvey hath discovered, in that excellent discourse of Generation; So strongly erected upon the two great pillars of truth, expe-

rience and folid reason.

That

That the fex is differnable thom the figure of Eggs, or that Cocks or Hens proceed from long or round ones, as many contend, experiment will easily fruitrate.

The Agricums observed a better way to hatch their Eggs in Ovens, then the Bubliomans to roalt them as the bottoming a fling, by swingling them round about, til heat from metion had concorded them; for that consuleth all parts without any such effect.

Though flight distinction be made between boiled and roasted Eggs, yet is there no flender difference, for the one is much drier then the other the Egg expiring less in the elixation or boiling, whereas in the affation or roasting, it will fometimes abate a draging that is, threescore grains in weight. So a new laid Egg will not so easily be boiled hard, because it contains a greater stock of hamid parts; which must be evaporated, before the heat can bring the inexhalable parts into consistence.

Why the Hen hatcheth not the Egg in her belly, or makes not at least some rudiment thereof within her self, by the natural heat of inward parts, since the same is performed by incubation from an outward warmth after; Why the Egg is thinner at one exceemed Why there is some cavity or emptiness at the blunter end? Why we open them at that part? Why the greater end is first excluded? Why some Eggs are all red, as the Kestrils; some only red at one end, as those of Kites and Buzzarits? Why some Eggs are not Oval but Round, as those of fishes? He, Are problems, whose decliness would too much enlarge this discourse.

That Snakes and Vipers do sting of transmit their milithief by the of Snakes tail, is a common expression not easily to be justified; and a determination of their venoms unto a part, wherein we could never find it; the possion lying about the teeth, and communicated by bice, in such are destructive. And therefore when biting setpents are mentioned in the Scripture, they are not differentially setpents are mentioned in the Scripture, they are not differentially setpents are mentioned in the Scripture, they are not differentially setpents are mentioned in the Scripture, they are not differentially setpents are mentioned in the Scripture, they are not differentially setpents are mentioned in the Scripture, they are not differentially set the mention as mischief by stings; nor can conclusions be made conformable to this opinion, because when the Rod of West was runned into a Scripent, God determinately commanded high to take up the same by the tail.

Nor are all Snakes of luch emposioning qualities, as common opinion prelumeth, as is confirmable from the ordinary green Snake with us, from leveral hiltories of dometrick snakes, from Opiniophagous nations, and luch as feed upon Serpents.

Surely the delithctive delition of Satan in this shape, hath much enlarged the opinion of their mischief. Which not with anding was not so high with the heathers, in whom the Devil had wrought a better opinion of this animal, it being facted unto the Express, Greeks, and Romans, and the common symbole of facility. In the

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hape whereof Aleulapins the God of health appeared unto the · Romans, accompanied their Embassadors to Rome from Epidaurus. and the same did stand in the Tiberine life upon the Temple of As.

celapius og Friends dotted or Some doubt many have of the Tarantula, or poisonous Spider of Calabria, and that magical cure of the bite thereof by Mulick But fince we observe that many attest it from experience : Since the leained Kircherine hath positively averred it, and set down the fongs and tunes folemnly used for it; Since some also affirm the Tarantula it felf will dance upon certain stroaks, whereby they fet their inframents against its poilon; we shall not at all question it. Much wonder is made of the Boramez, that strange plant-animal or vegetable Lamb of Tartary, which Wolves delight to feed on. which bath the shape of a Lamb, affordeth a bloody juyce upon breaking, and liveth while the plants be confumed about it. And best if all this being more, then the hape of a Lamb in the flowengenfood upon the top of the stalk, as we meet with the forms of Bees, Plies and Dogs in some others; he hath seen nothing that shall much wonder at the interior

It may feem tog bard to question the Swiftness of Tigers, which shart therefore given names unto horses, Ships and Rivers, nor scap we deny what all have thus affirmed; yet cannot but observe. Ichar Ancobus Banging Late Phylitian at Java in the East Indies, as an coshist and frequent witness is not afraid to deny it; to condemn Pliny who affirmeth it, and that indeed it is but a flow and tardigradous; mimal; preying upon advantage, and otherwise may be el-

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Many more there are whole serious enquiries we must request of others, and thall only awake confiderations, Whether that common apinion, that Snakes, do breed out of the back or spinal marrow of man, doth build upon any conftant root or feed in nature; or did not arise from contingent generation, in some single bodies remembred by Pliny or others, and might be paralleld fince in living corruptions of the guts and other parts; which regularly proceed not to putrifactions of that nature.

Whether the Story of the Remora be not unreasonably amplified; whether that of Bernacles and Goofe-trees be not too much enlarged; whether the common history of Bees will hold, as large accounts have delivered; whether the brains of Cats be attended with such destructive malignities, as Dioscorides and others put upon

them.

As also whether there be not some additional help of Art, unto the Numifmatical and Musical shells, which we sometimes meet with in conchylious collections among us.

Whether

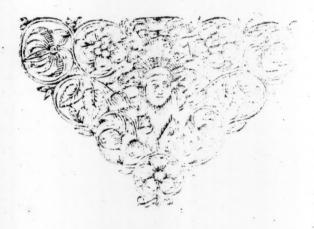
Whether the fasting spittle of man be poisson unto Snakes and Vipers, as experience hath made us doubt? Whether the Nightingals setting with her breast against a thorn, be any more then that the placeth some prickels on the outside of her nest, or roosteth in thorny and prickly places, where Serpents may least approach her? Whether Mice may be bred by putrisaction as well as univocall pro-Helm. Image duction, as may be easily believed, if that receit to make Mice out fermensi, &c. of wheat will hold, which Helmont hath delivered. Whether Quails from any idiosyncracy or peculiarity of constitution, do innocuously feed upon Hellebore, or rather sometime but medically use the same; because we perceive that Stares, which are commonly said harmlessy to feed on Hemlock, do not make good the tradition; and he that observes what vertigoes, cramps and convulsions follow thereon in these animals, will be of our belief.



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Whether the fasting spittle of man be possion unto Snakes and Vipers, as experience hath made us doubt? Whether the Neghtingals setting with her breast against a thorn, be any more then that she placeth some prickels on the outside of her nest, or roofleth in thorny and prickly places, where Serpents may least approach her? Whether Mice may be bred by putrifaction as well as univocall programment of wheat will half, which shower but a discretion make Mice out survey of whether that delivered. Whether Quaks from my instrument, or earlier operations of the large was preceive that Server, when hat a continuous at the large was preceive that Server, which was continued as the large of the large of the large was preceive that Server, which was continued as the large of the large



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his EA; if we define not the one A every Apin Loften, but when the Spine is in rections with the I high, and both with the arms lie parallel to the Housen: fo that a line through their Navel will pass through the Zenith and Centre of the Luth. And so cannot ceher Animils lie upon their states; or a long the Spine lie parallel with the Horizon, ye all cin egs in he, in the at angles unto it. And upon thee three divers positions in Alex, wherein the

kable postures, prone, supine and Engl; which are but differenced Of many popular and received Tenents concerning Man, which examined, prove either unto pronencis, or the polture of animal olding do firsterds, carrying their venters or oppolite part to the office their venters or oppolite part to the office their venters or oppolite part to the opposite their venters or opposite the o the Earth, it may admit of question. For though in Serpents and Ligards we may finly allow a pronencis, yet Gazn acknowlet gen that pear it Quadrupeds, as Horfes, Oxen and Camels, are but partly prone, and have some par of Pragings And Errai or figing Animals .. are fo tar from this kind of pronuncis, that they are almost Brecht advincing the mind of Rantser and for progression, and only prone in the Act of solution or thing. And it that be true

> Hat only Man hath an Erect figure, and for to behold and look up toward heaven, according to that of the Poet,

Pronagne cum frectant animalia catera terram, Os homini Sublime didit, calumque tueri Juffit, o erectos ad fydera tollere vultus,

is a double affertion, whose first part may be true ; if we take Erectness strictly, and so as

Galen hath defined it; for they only, faith he, have an Erect figure, what figures whose spine and thigh-bone are carried in right lines; and so in- animals is deed of any we yet know Man only is Erect. For the thighs of properly ered. other animals do stand at Angles with their spine, and have rectangular politions in Bires, and perfect Quadrupeds. Nor deth the Frog. though stretched out, or swimming, attain the rectifude of Man, or carry its thigh without all angularity. And thus is it also true, that Man only fitteth it we define fitting to be a firmation of the body

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upon the Ischias: wherein if the position be just and natural, the Thigh-bone lieth at right angles to the Spine, and the Leg bone or Tibia to the Thigh. For others when they feem to fit, as Doys, Cats, or Lions, do make unto their Spine acute angles with their Thigh, and acute to the Thigh with their Shank. Thus is it like. wife true, what Aristotle alledgeth in that Problem; why Man alone fuffereth pollutions in the Night, because Man only lyeth upon his Back; if we define not the same by every supine position, but when the Spine is in rectitude with the Thigh, and both with the arms lie parallel to the Horizon: so that a line through their Navel will pass through the Zenith and Centre of the Earth. And so cannot other Animals lie upon their Backs; for though the Spine lie parallel with the Horizon, yet will their Legs incline, and lie at angles unto it. And upon these three divers positions in Man, wherein the Spine can only be at right lines with the Thigh, arise those remarkable postures, prone, supine and Erect; which are but differenced in fituation, or unangular postures upon the Back, the Belly and the Feet. But if Erectness be popularly taken, and as it is largely opposed

unto pronenels, or the polture of animals looking downwards, carrying their venters or opposite part to the Spine, directly towards the Earth, it may admit of question. For though in Serpents and Litards we may truly allow a pronenels, yet Galen acknowledgeth that perfect Quadrupeds, as Horses, Oxen and Camels, are but partly prone, and have some part of Erectness. And Birds or flying Animals, are fo tar from this kind of proneness, that they are almost Erect; advancing the Head and Breast in their progression, and only prone in the Act of volitation or flying. And if that be true which is delivered of the Pengin or Infer Magellanicus, often delcribed in Maps about those Straits, that they go Erect like Men, the Vrias Beland with their Breaft and Belly do make one line perpendicular unlonii and Merto the axis of the Earth; it will almost make up the exact Erectness of Man. Nor will that Infect come very, short which we have often beheld, that is, one kind of Locust which stands not prone, or a little inclining upward, but in a large Erectness, elevating alwaies the two fore Legs, and fullaining it felf in the middle of the other four : Zoographers called Manis, and by the common People of Province, Prega, Dio, the Prophet and praying Locust; as being generally found in the posture of supplication, or such as resembleth. ours, when we lift up our hands to Heaven.

Describers of anemals.

Observe also

gus major.

As for the end of this Erection; to look up toward Heaven; though confirmed by feveral testimonies, and the Greek Etymology of Man, it is not so readily to be admitted; and as a popular and vain conceit was Anciently rejected by Galen; who in his third,

De usu partium, determines, that Man is Erect, because he was made with hands, and was therewith to exercise all Arts, which in any other figure he could not have performed; as he excellently declareth in that place, where he also proves that Man could have been made neither Quadruped nor Centaur.

And for the accomplishment of this intention, that is, to look up and behold the Heavens, Man hath a notable disadvantage in the Eye lid; whereof the upper is far greater than the lower, which abridgeth the fight upwards; contrary to those of Birds, who Plemp, Ophherein have the advantage of Man: Infomuch that the Learned Plem- that mographia. pins is bold to affirm, that if he had had the formation of the Eye-

lids, he would have contrived them quite otherwife.

The ground and occasion of this conceit was a literal apprehension of a figurative expression in Plato, as Galen thus delivers; To opinion that Man is Erect to look up and behold the Heavens, is a conceit only fit for those that never faw the Fish Uranoscopus. that is, the Beholder of Heaven; which hath its Eyes so placed, that it looks up directly to Heaven; which Man doth not, except he recline, or bend his head backward: and thus to look up to Heaven, agreeth not only unto Men, but Alles; to omit Birds with long necks, which look not only upwards, but round about at pleasure. And therefore Men of this opinion understood not Plato when he faid that Man doth Surfum afficere; for thereby was not meant to gape, or look upward with the Eye, but to have his thoughts sublime; and not only to behold, but speculate their Nature, with the Eye of the understanding

Now although Galen in this place makes instance but in one, yet are the other fishes, whose Eyes regard the Heavens, as Plane, and Cartilagineous Fishes; as Pettinals, or such as have their bones made laterally like a Comb; for when they apply themselves to seep or self upon the white side, their Eyes on the other, side look upward toward Heaven. For Birds, they generally carry their heads Erect. ly like Man, and have advantage in their upper Eye-lid; and many that have long necks, and bear their heads fomewhat backward, behold far more of the Heavens, and feem to look above the aquinoxial Circle. And fo also in many Quadrupeds, although their progression be parely prones yet is the fight of their Eye direct, not respecting the Earth but Heaven; and make an higher. Arch of altitude then our own. The polition of a Frog with his head above water exceedeth these; for therein he feems to behold a large part of the Heavens, and the acies of his Eye to afcend as high as Point of heathe Tropick; but he that thath beheld the posture of a Bittor; will ven over que not deny that it beholds almost the very Zenith. ..

heads.

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partium, determines, that Man is theet, because he was made with hands, and was therewith to exercise all Arrs, which in my other figure he could for AvA Alf Oned; as he excellently dedurch in that place, where he also proves that Aton could have

been made neither Quadruped nor Cepteur.

And for the accomplial stand and for that is, to book up and behold the Heavens, Men bath a notable difadvantage in

How a Mans bearis placed on

Hav the Heart of Man is feated in the left fide; as an affere cration, which thricity taken, is refutable by inspection, where in his Body by it appers the bale and centre thereof is in the midft of the thelt ? true it is a chat the Mucro or Point thereof inclineth with to the left; for by this position it giveth way unto the afcention of the midriff, and by realon of the hollow vein could not commodioally deflect unro the right. Prom which divertion, nevertheless we cannot to properly fay its placed in the left, as that it confiltethin the middle, that is, where its centre refteth; for lo do we usually Onomon or Needle is in the middle of a Dial, although the extreams may respect the North or South, and approach the circum. ference thereof. auds bas : brawkood bash aid f

The ground of this militake is a general observation from the while or motion of the Heave; which is more sensible on this fide; but the reason hereof is not to be drawn from the fituation of the Heart, but the fite of the left ventricle wherein the vital Spirits are laboured and also the great Artery that conveieth them out; both which are littlated on the left. Upon this reason Epithems or cordial Applications are justly applied unto the left Breast; and the Wounds under the fifth Rib may be more fuddenly destructive if made on the finister fide, and the Spear of the Souldier that perced our Saviour, is not improperly described, when Painters direct it a little towards the left.

The other ground is more particular and upon inspection; for in dead Bodies especially lying upon the Spine, the Heart doth seem to incline unto the left. Which happeneth not from its proper fiter birt belides its finistrous gravity, is drawn that way by the preat Artery, which then sublideth and haileth the Heart unto h. And therefore Strictly taken, the Heart is seated in the middle of the Cheft; but after a careless and inconsiderate aspection, or according to the readiest fense of pulfation, we shall not Quarrel, if any affirm it is feated toward the left. And in these considerations must Aristotle be falved, when he affirmeth the Heart of Man is placed in the left fide; and thus in a popular acception may we receive the Periphrafis of Perfine; when he taketh the part under the left Pap for the Heart; and if rightly apprehended; it concerneth not this parce mamilla. controversie, when it is said in Ecclesiastes; The Heart of a wife

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Man is in the right side, but that of a Fool in the left, for thereby may be implied, that the Heart of a wife Man delighteth in the right way, or in the path of Vertue; that of a Fool in the left or road of Vice; according to the mystery of the Letter of Pribago. ras, or that expression in Journal wonderning fixscore thousand, that could not discern between their right hand and their left, or knew That Placefles are only on the left fide, isliva provide bobason That effection also that Min proportionally hath the largest brain, Edid I confess somewhat doubt; and conceived it might have failed in Birds, especially fuch as having little Bodies, have yet large Cranies. and feem to contain much Brain, as Snipes, Woodcocks, &c. But upon rial I find it very true. The Brains of a Man, Archangelm and Bankings observe, to weigh four pound, and sometime five and a half. If therefore a Man weigh one hundred and fourty pounds, and his Brain but five, bis Weight is 27. times as much as his brain, deducting the weight of that five pound which is allowed for it, Now in a Snipe, which weighed four ounces two dragms, I find the Brains m weigh but half a dragor; so that the weight of the Body (alhowing for the Brain) exceeded the weight of the Brain, fixty feven times and an half.

More controvertible it feemeth in the Brains of Sparrows, whose Cranies are rounder, and so of larger capacity; and most of all in the Heads of Birds; upon the first tornation in the Egg, wherein the Head seems larger then all the Bodys; and the very Eyes almost as hig as either. A sparrow in the total we found to weigh seven dragms and four and twenty grans; whereof the Head a dragm, but the Brain not inferen grains; which answereth not fully the propertions of the brain of Man. And therefore it is to be taken of the Histor Animals.

whole Head with the Brains, when Scaliger objecteth that the lib. Head of a Man is the fifteenth part of his Body; that of a Sparrow, scarce the fifth.

CHAR IV.

of the Renginger.

A No color at there is a which magnifies the frequent Engar of the fire the blands producing there is confine released them a particular velocity received the action the frequent that he bear the bonder to bear our Rings. Which the Charles the Charles one the bonder to bear our Rings. Which the Charles one chief the Sender Charles and a Charles one of the order of the Charles and the Charles and the order of the order of the charles and the order of the or

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ro see collect it the Letter of Printing.

That Plurifies are only on the left fide, is a popular Tenent not only abfurd but dangerous. From the milapprehension hereof, men omitting the opportunity of remedies, which otherwise they would not neglect. Chiefly occasioned by the Ignorance of Anatomy and the extent of the part affected; which in an exquisite Plennife is determined to be the skin or membrane which invested the Ribs, for so it is defined, Instammatio membrane costs succingentia; An Instammation, either simple, consisting only of an hot and sanguineous affluxion; or else denominable from other humours, according to the predominancy of melancholy, stegm, or choler. The membrane thus instanced, its property called Pleura; from whence the discase hath its name; and this investeth not only one side, but overspreadeth the cavity of the chest, and affordeth a common coat unto the parts contained therein.

Now therefore the Pleura being common unto both sides, it is not reasonable to conside the inflammation unto one, nor strictly to determine de is alwaies in the side; but sometimes before and behind, that is, inclining to the Spine or Breast-bone; for thither this Coat extendesh; and therefore with equal propriety we may affirm, that ulcers of the lungs, or Apostems of the brain do happen only in the lest side; or that Ruptures are consinable unto one side, whereas the Peritoneum or Rib of the Belly may be broke, or its personal

a de rations relaxed in either. Se ned w , sailed and age !

CHAP. IV.

to filterary part of his Body; that if a force

Of the Ring-finger.

A Nopinion there is, which magnifies the fourth Finger of the left Hand; presuming therein a cordial relation, that a particular vessel, nerve, vein or artery is conferred thereto from the heart, and therefore that especially hath the honour to bear our Rings. Which was not only the Christian practice in Nuptial contracts, but observed by Heathens, as Alexander ab Alexandro, Gellius, Macrobius

What a Pleu-

branches

and Piering have delivered, as Levinus Lemnius hath confirmed, who affirms this peculiar vessel to be an artery, and not a Nerve, as Antiquity hath conceived it; adding moreover that Rings hereon peculiarly affect the Heart; that in Lipothymies or Iwoundings he used the frication of this Finger with saffron and gold : that the ancient Physitians mixed up their Medicines herewith; that this is feldom or last of all affected with the Gout, and when that becometh nodous, Men continue not long after. Notwithstanding all which we remain unfatisfied, nor can we think the reasons alleadged suffi-

ciently establish the preheminency of this Finger.

For first, Concerning the practice of Antiquity, the custom was not general to wear their Rings either on this Hand or Finger; for it is faid, and that emphatically in feremiah, Si fuerit Jeconias filius Joachim regis Juda annulus in manu dextra mea, inde evallam eum: Though Coniah the son of Foachim King of Judah, were the fignet on my right Hand, yet would I pluck thee thence. So is it observed by Pliny, that in the portraits of their Gods, the Rings were worn on the Finger next the Thumb; that the Romans wore them on the middle Finger, as the ancient Gaules and Britans; and some upon the fore-Finger, as is deduceable from Julius Pollux; who names that Ring Corionos.

Again, That the practice of the ancients, had any fuch respect of cordiality or reference unto the Heart, will much be doubted, if Rings ancients. we consider their Rings were made of Iron; such was that of Pro- ly of Iron.

metheus, who is conceived the first that brought them in use. So, as Pliny affirmeth, for many years the Senators of Rome did not wear any Rings of Gold; but the flaves wore generally Iron Rings until their manumission or preferment to some dignity. That the Lacedemonians continued their Iron Rings unto his daies, Pliny also delivereth, and furely they used few of Gold; for beside that Lycurgus prohibited that mettal, we read in Atheneus, that having a defire to guild the face of Apollo, they enquired of the Oracle where they might purchase so much Gold; and were directed unto Crafius King of Lydia.

Moreover whether the Ancients had any fuch intention, the grounds which they conceived in vein, Nerve or Artery, are not to be justified, nor will inspection confirm a peculiar vessel in this Finger. For as Anatomy informeth the Basilica vein dividing into two branches below the cubit, the outward fendeth two circles unto the thumb, two unto the fore-finger, and one unto the middle finger in the inward lide; the other branch of the Basilica sendeth one circle unto the outlide of the middle finger, two unto the Ring, and as many unto the little fingers; fo that they all proceed from the Bafilica, and are in equal numbers derived unto every one. In the same manner are the Whence the Nerves probranches of the axillary artery distributed into the Hand; for below the cubit it divideth into two parts, the one running along the Radius, and passing by the wrest or place of the pulse, is at the Finger's subdivided into three Branches; whereof the first conveyeth two surcles unto the Thumb, the second as many to the sore-Finger, and the third one unto the middle Finger; the other or lower division of the artery descendeth by the ulna, and surnisheth the other Fingers; that is the middle with one Circle, and the Ring and little Fingers with two. As for the Nerves, they are disposed much after the same manner, and have their original from the Brain, and not the Heart, as many of the Ancients conscived; which is so far from affording Nerves unto other parts, that it receives the very sew it self from the sixth conjugation, or pair of Nerves in the Brain.

Lastly, These propagations being communicated unto both Hands, we have no greater reason to wear our Rings on the left, then on the right; nor are there cordial confiderations in the one, more then the other. And therefore when Forestss for the stanching of blood makes use of Medical applications unto the fourth Finger, he confines not that practice unto the left, but varieth the fide according to the nostril bleeding. So in Feavers, where the Heart primarily suffereth, we apply Medicines unto the wrests of either arms so we touch the pulse of both, and judge of the affections of the Heart by the one as well as the other. And although in indispositions of Liver or Spleen, confiderations are made in Phlebotomy refpectively to their situation ; yet when the Heart is affected, Menhave thought it as effectual to bleed on the right as the left; and although also it may be thought, a nearer respect is to be had of the left, because the great artery proceeds from the left ventricle, and so is nearer that arm; it admits not that consideration. For under the channel bones the artery divideth into two great branches, from which trunk or pont of division, the distance unto either Hand is equal, and the confideration also answerable.

All which with many respective Niceties, in order unto parts, sides, and veines, are now become of less consideration, by the new and

noble doctrine of the circulation of the blood.

And therefore Macrobine discussing the point, hath alleadged another reason; affirming that the gestation of Rings upon this Handland Finger, might rather be used for their conveniency and preservation, then any cordial relation. For at first (saith he) it was both free and usual to wear Rings on either Hand; but after that luxury encreased, when pretious gems and rich insculptures were added, the custom of wearing them on the right Handle was translated unto the seft; for that Handle being less imployed, thereby they were best preserved.

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preserved. And for the same reason they placed them on this Finger; for the Thumb was too active a Finger, and is commonly imployed with either of the rest: the Index or fore-Finger was too naked whereto to commit their pretiosities, and hath the tuition of the Thumb scarce unto the the second joint: the middle and little Finger they rejected as extreams, and too big or too little for their Rings, and of all chose out the fourth, as being least used of any, as being guarded on either side, and having in most this peculiar condition, that it cannot be extended alone and by it self, but will be accompanied by some Finger on either side. And to this opinion assented Alexandro, Annulum nuptialem prior atau in sinisfra ferebat, crediderim ne attereretur.

Now that which begat or promoted the common opinion, was the common conceit the Heart was feated on the left fide; but how far this is verified, we have before declared. The Egyptian practice hath much advanced the same, who unto this Finger derived a Nerve from the Heart; and therefore the Priest anointed the same with precious oyls before the Altar. But how weak Anatomists they were, which were so good Embalmers, we have already shewed. And though this reason took most place, yet had they another which more commended that practice: and that was the number whereof this Finger was an Hieroglyphick. For by holding down the fourth Finger of the left Hand, while the rest were extended, they fignified the perfect and magnified number of fix. For as Pierius hath graphically declared, Antiquity expressed numbers by the Fingers of either Hand: on the left they accounted their digets and articulate numbers unto an hundred; on the right Hand hundreds and thousands; the depteffing this Finger, which in the left Hand implied but fix, in the right indigitated fix hundred. In this way of numeration, may we construe that of Juvenal concerning Neftor,

- Qui per tot sacula mortem

Distulit, atg, suos jam dextra computat annes.

And however it were intended, in this sense it will be more elegant what is delivered of Wildom, Prov. 3. Length of daies is in

her right Hand, and in her left Hand riches and honour.

As for the observation of Lemnius an eminent Physician, concerning the Gout; however it happened in his Country, we may Hand-Gour observe it otherwise in ours; that is, that chiragrical persons de persons suffer in this Finger as well as in the rest, and sometimes first of all, and sometimes no where else. And for the mixing up medicines herewith; it is rather an argument of opinion, then any considerable effect; and we as highly conceive of the practice in Deapalma, that is, in the making of that plauster, to stir it with the stick of a Palm.

CHAP.

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CHAP. V.

Of the right and left Hand.

T is also suspicious, and not with that certainty to be received. what is generally believed concerning the right and left hand; that Men naturally make use of the right, and that the use of the other is a digreffion or aberration from that way which nature generally intendeth. We do not deny that almost all Nations have used this hand, and ascribed a preheminence thereto : hereof a remarkable passage there is in the 48. of Genesis, And Joseph took them both, Ephraim in his right hand towards Ifraels left hand, and Manaffes in his left hand towards Ifraels right hand, and Ifrael stretched out his right hand and laid it upon Ephraims head, who was the younger, and his left hand upon Manasses head, guiding his hands wittingly, for Manaffes was the first-born; and when Joseph faw that his father laid his right hand upon the head of Ephraim, it displeased him, and he held up his fathers hand to remove it from Ephraims head unto Manasses head, and Toseph said, Not so my father, for this is the first-born, put thy right hand upon his head: The like appeareth from the ordinance of Moses in the consecration of their Priests, Then shalt thou kill the Ram, and take of his blood, and put it upon the tip of the right ear of Aaron, and upon the tip of the right ear of his fons, and upon the thumb of the right hand, and upon the great toe of the right foot, and sprinkle the blood on the Altar round about. That the Persians were wont berewith to plight their faith, is testified by Diodorus: That the Greeks and Romans made use hereof, beside the testimony of divers Authors, is evident from their custom of discumbency at their meals, which was upon their left side, for so their right hand was free, and ready for all fervice. As also from the conjunction of the right hands and not the left observable in the Roman medals of concord. Nor was this only in use with divers Nations of Men, but was the custom of whole Nations of Women; as is deduceable from the Amazones in the amputation of their right breaft, whereby they had the freer use of their bow. All which do feem to declare a natural preferment of the one unto motion before the other; wherein notwithstanding in submission to future information, we are unsatisfied unto great dubitati-

For first, if there were a determinate preportincy in the right, and such as ariseth from a constant root in nature, we might expect the

fame in other animals, whose parts are also differenced by dextrality; wherein notwithstanding we cannot discover a distinct and complying account; for we find not that Horfes, Buls, or Mules, are generally stronger on this side. As for Animals whose forelegs more fensibly supply the use of arms, they hold, if not an equality in both, a prevalency oft-times in the other, as Squirrels, Apes, and Monkies; the same is also discernable in Parrets, who feed themselves more commonly by the left-leg, and Men observe that the Eye of a Tumbler is biggeft, not constantly in one, but in the bearing fide.

That there is also in Men a natural prepotency in the right, we cannot with constancy affirm, if we make observation in children; who permitted the free-dom of both, do oft-times confine unto the left, and are not without great difficulty restrained from it. And therefore this prevalency is either uncertainly placed in the laterality, or custom determines its differency. Which is the resolution of Aristotle in that Problem, which enquires why the right fide being better then the left, is equal in the senses ? because, saith he, the right and left do differ by use and custom, which have no place in the fenses. For right and left as parts inservient unto the motive faculty, are differenced by degrees from use and affuefaction, accor. Whence the ding whereto the one grows stronger and oft-times bigger then the dexiral activiperfection by use or custom, but at the first we equally hear and fee with one Eye, as well as with another. And therefore, were this indifferency permitted, or did not constitution, but nature determine dextrality, there would be many more Scevolaes then are delivered in story; nor needed we to draw examples of the left . from the fons of the right hand; as we read of feven thousand in the Army of the Benjamites. True it is, that although there be an Benjamin filing of indifferency in either, or a prevalency indifferent in one, yet is it dexira. most reasonable for uniformity, and fundry respective uses, that Men should apply themselves to the constant use of one; for there will otherwise arise anomalous disturbances in manual actions, not only in civil and artificial, but also in Military affairs, and the several actions of war.

Secondly, The grounds and reasons alleadged for the right, are not fatisfactory, and afford no rest in their decision. Scaliger finding a defect in the reason of Aristotle, introduceth one of no less deficiency himself; Ratio materialia (faith he) sanguinis craffitudo fimul of multitudo; that is, the reason of the vigaur-of this side, is

the crassitude and plenty of blood; but this is not sufficient; for the craffitude or thickness of blood affordeth no reason why one arm should be enabled before the the other, and the plenty there. of, why both not enabled equally. Fallopius is of another conceit. deducing the reason from the Az gos or vena fine pari, a large and considerable vein arising out of the cava or hollow vein, before it enters the right ventricle of the Heart, and placed only in the right fide. But neither is this perswasory; for the Azygos communicates no branches unto the arms or legs on either fide, but disperseth into the Ribs on both, and in its descent doth furnish the left E. mulgent with one vein, and the first vein of the loins on the right fide with another; which manner of derivation doth not confer a peculiar addition unto either. Calins Rodiginus undertaking to give a reason of Ambidexters and Left handed Men, delivered a third opinion: Men, faith he, are Ambidexters, and use both Hands alike, when the heat of the Heart doth plentifully disperse into the left fide, and that of the Liver into the right, and the fpleen be alle much dilated; but Men are Left-bunded when ever it happeneth that the Heart and Liver are feated on the left-fide; or when the Liver is on the right fide, yet so obducted and covered with thick skins, that it cannot diffuse its vertue into the right. Which reasons are no way, fatisfactory; for herein the spleen is injustly introduced to invigorate the finister fide, which being dilated it would rather infirm and dibilitate. As for any tunicles or skins which should him der the Liver from enabling dextral parts; we must not conceive it diffuseth its vertue by meer irradiation, but by its veins and proper vessels, which common skins and teguments cannot impede. And for the feat of the Heart and Liver in one side, whereby Men be--come Left-banded, it happeneth too rarely to countenance an effect fo common; for the feat of the Liver on the left fide is monstrous, and earely to be met with in the observations of Physicians. Others not confidering amdidextrous and Left-handed Men, do totally submit unto the efficacy of the Liver; which though feated on the right fide, yet by the subclavian division doth equidistantly communicate its activity unto either Arm; nor will it salve the doubts of observation; for many are Right handed whose Livers are weakly constituted, and many use the left, in whom that part is strongestr and we observe in Apes, and other animals, whose Liver is in the right, no regular prevalence therein.

And therefore the brain, especially the spinal marrow, which is but the brain prolonged, hath a fairer plea hereto; for these are the principles of motion, wherein dextrainty consists; and are divided within and without the Crany. By which division transmitting. Netves respectively unto either side; according to the indifferency,

or original and native prepotency, there arrieth an equality in both, or prevalency in either fide. And so may it be made out, what many may wonder at, why some most actively use the contrary Arm and Leg.; for the vigour of the one dependeth upon the upper part of the spine, but the other upon the lower.

And therefore many things are Philosophically delivered concernine right and left, which admit of some suspension. That a Woman upon a masculine conception advanceth her right Leg, will not he found to answer strick observation. That males are conceived in the right fide of the womb, females in the left, though generally delivered, and supported by ancient testimony, will make no infallible accounts it happening oft times that males and females do lie upon both fides, and Hermaphrodites for ought we know on either. It is also suspitious what is delivered concerning the right and left testicle, that males are begotten from the one, and females from the other. For though the left feminal vein proceedeth from the emulgent, and is therefore conceived to carry down a ferous and femipine matter ; yet the feminal Arteries which fend forth the active materials, are both derived from the great Artery. Beside this original of the left vein was thus contrived, to avoid the pullation of the great Artery, over which it must have passed to attain unto the testicle. Nor can we casily infer such different effects from the divers fituation, of parits which have one end and office; for in the kidneys which have one office, the right is feated lower then the left, whereby it lieth free, and giveth way unto the Liver. And therefore also that way which is delivered for masculine generation, to make a strait ligature about the less testicle, thereby to intercept the evacuation of that part, deserveth consideration. For one sufficeth unto generation, as hath been observed in semicaltration, and oft times in cirnous ruptures. Befide, the feminal ejaculation proceeds not immediately from the tefficle, but from the spermatick glandules; and therefore Aristotle affirms (and reason cannot deny) that although there be nothing diffuled from the tellicles, an Horse How an Horse

or Bull may generate after castration; that is, from the stock and or Bull may remainder of seminal matter, already prepared and stored up in the generate after they be gelt.

Thirdly, Although we should concede a right and left in Nature, yet in this common and received account we may eriffered the proper acception; militaking one fide for another; calling that in Manado other animals the right which is the left, and that the left which is the right, and that in some things right and left, which is not properly either.

For first the right and left, are not defined by Phylosophers according to common acception, that is, respectively from one Man

unto another, or any constant site in each; as though that should be the right in one, which upon confront or facing, stands athwart or diagonially unto the other; but were diffinguished according to the activity and predominant locomotion upon either side. Thus Aristotle in his excellent Tract de incessu animalium, ascribeth six pofitions unto Animals, answering the three dimensions; which he determineth not by fite or position unto the Heavens, but by their faculties and functions; and these are Imum summum, Am Retro, Dextra & Siniftra : that is, the saperiour part, where the aliment is received, that the lower extream, where it is last expelled; fo he termeth a Man a plant inverted; for he supposeth the root of a Tree the head or upper part thereof, whereby it receiveth its aliment, although therewith it respects the Center of the Earth, but with the other the Zenith; and this polition is answerable unto longitude. Those parts are anteriour and measure profundity, where the senses, especially the Eyes are placed, and those posterior which are opposite hereunto. The dextrous and finistrous parts of the body, make up the latitude; and are not certain and inalterable like the other; for that, faith hes is the right fide, from whence the motion of the body beginneth, that is, the active or moving fide; but that the finister which is the weaker or more quiescent part. Of the same determination were the Platonicks and Pythaporians before him; who conceiving the heavens an animated body, named the East, the right or dextrous part, from whence began their motion: and thus the Greeks, from whence the Latins have borrowed their appellation, have named their hand digin, denominating it not from the fite, but office, form o zene capio, that is, the hand which receiveth, or is usually implied in that action.

Now upon these grounds we are most commonly mistaken, defining that by fituation which they determined by motion; and giving the term of right hand to that which doth not properly admit it. For first, Many in their Infancy are finistriously disposed, and divers continue all their life 'Ausregi, that is, left handed, and have but weak and imperfect use of the right; now unto these, that hand is properly the right, and not the other esteemed so by fituation. Thus may Aristotle be made out, when he affirmeth the right claw of Crabs and Lobsters is biggest, if we take the right for the most vigorous fide, and not regard the relative fituation : for the one is generally bigger then the other, yet not alwayes upon the fame fide. So may it be verified what is delivered by Scaliger in his Comment, that Palsies do oftnest happen upon the left fide, if understood in this fense; the most vigorous part protecting it felf, and protruding the matter upon the weaker and less resistive fide. And thus the Law of Common Weals, that cut off the right hand of Maletactors.

factors, if Philosophically executed, is impartial; otherwise the am-

putation not equally punisheth all-

Some are Application, that is, ambidextrous or right handed on both Apt for comfides; which happeneth only unto strong and Athletical bodies, tention. whose heat and spirits are able to afford an ability unto both. And therefore Hippocrates, faith, that Women are not ambidextrous, that is, not so often as Men; for some are found, which indifferently make use of both. And so may Aristotle say, that only Men are ambidexterous; of this constitution was Asteropaus in Homer, and Parthenopeus the Theban Captain in Statins: and of the same, do. some conceive our Father Adam to have been, as being perscetly framed, and in a constitution admitting least defect. Now in these Men the right hand is on both fides, and that is not the left which

is opposite unto the right, according to common acception.

Again, Some are 'Appaessee', as Galen hath expressed it; that is, Strong werfie ambileyous or left-handed on both fides; fuch as with agility and for corporal vigour have not the use of either: who are not gymnastically com-exercise. posed: nor actively use those parts. Now in these there is no right hand: of this constitution are many Women, and fome Men, who though they accustom themselves unto either hand, do dexterously make use of neither. And therefore although the Political advice of Aristotle be very good, that Men should accustom themselves tothe command of either hand : yet cannot the execution or performance thereof be general: for though there be many found that can use both, yet will there divers remain that can strenuously make use of neither.

Lastly, These lateralities in Man are not only fallible, if relatively determined unto each other, but made in reference unto the heavens and quarters of the Globe: for those parts are not capable of these conditions in themselves, nor with any certainty respectively derived from us, nor from them to us again. And first in regardof their proper nature, the heavens admit not these finister and dexter respects; there being in them no diversity or difference, but a simplicity of parts, and equiformity in motion continually succeeding: each other; so that from what point soever we compute, the account will be common unto the whole circularity. And therefore though it be plaulible, it is not of consequence hereto what is delivered by Solinus. That Man was therefore a Microcosm or little World, because the dimensions of his positions were answerable unto the greater. For as in the Heavens the distance of the North and Southern pole, which are esteemed the superiour and inferiour points, is equal unto the space between the East and West, accounted the dextrous and sinistrous parts thereof; so is it also in Man, for the extent of his fathome or distance betwirt the extremity of the fingers of either

hand upon expansion, is equal unto the space between the sole of the foot and the crown. But this doth but petionarily infer a deretrality in the Heavens, and we may as reasonably conclude a right and left laterality in the Ark or naval edifice of Noah. For the length thereof was thirty cubits, the breadth fifty, and the height or projundity thirty; which well agreeth unto the proportion of Man; whose length, that is, a perpendicular from the vertex unto the sole of the foot is sextuple unto his breadth, or a right line drawn from the ribs of one side to another; and decuble unto his profundity; that is, a direct line between the breast bone and the spine.

Again, They receive not these conditions with any affurance or Stability from our selves. For the relative foundations and points of denomination, are not fixed and certain, but variously designed according to imagination. The Philosopher accounts that East from whence the Heavens begin their motion. The Astronomer regarding the South and Meridian Sun, calls that the dextrous part of Hea. ven which respecteth his right hand; and that is the West Poes respecting the West, assign the name of right unto the North, which regardeth their right hand; and so must that of Ovid be explained utg, due dextra Zone totidemque smistra. But Augurs or Somt fayers turning their face to the East, did make the right in the South; which was also observed by the Hebrews and Chaldean, Now if we name the quarters of Heaven respectively unto our sides, it will be no certain or invariable denomination. For if we call that the right fide of Heaven which is feated Easterly unto us, when we regard the Meridian Sun; the inhabitants beyond the Aguator and Southern Tropick when they face us, regarding the Meridian, will contrarily define it; for unto them, the opposite part of Heaven will respect the left, and the Sun arise to their right.

And thus have we at large declared that although the right be most commonly used, yet hath it no regular or certain root in natural Since it is not confirmable from other Animals: Since in Children it seems either indifferent or more favourable in the other; but more reasonable for uniformity in action, that Men accustom unto one: Since the grounds and reasons urged for it, do not sufficiently support it: Since if there be a right and stronger side in nature, yet may we mistake in its denomination; calling that the right which is the lest, and the lest which is the right. Since some have one right, some both, some neither. And lastly, Since these affections in Man are not only fallible in relation unto one another, but made also in reference unto the Heavens, they being not capable of these conditions in themselves, nor with any certainty from us, nor we from them again.

And therefore what admission we ow unto many conceptions concerning right and left, requireth circumspection. That is, how far

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we ought to rely upon the remedy in Keranides, that the left eye of an Hedg-hog fried in oyl to procure sleep, and the right foot of a Frog. in a Dears skin for the Gont; or that to dream of the loss of right or left tooth, presageth the death of male or semale kindred, according to the doctrine of Artemidorus. What verity there is in that numeral conceit in the lateral division of Man by even and odd, ascribing the odd unto the right side, and even unto the left; and so by parity or imparity of letters in Mens names to determine missfortunes on either side of their bodies; by which account in Greek numeration, Hephastus or Vulcan was same in the right soot, and Anibal lost his right eye. And lastly, what substance there is in that Auspicial principle, and fundamental doctrine of Ariolation, that the left hand is ominous, and that good things dopass similtrously upon us, because the left hand of man respected the right hand of the Gods, which handed their savours unto us.

CHAP. VI.

Of Swimming and Floating.

Hat Men swim naturally, if not disturbed by fear; that Menbeing drowned and funk, do float the ninth day when their gall breaketh; that Women drowned, swim prone, but Men supine, or upon their backs; are popular affirmations, whereto we cannot affent. And first, that Man should swim naturally, because we obferve it is no lesson unto other Animals, we are not forward to conclude; for other Animals swim in the same manner as they go, and need no other way of motion for natation in the water, then for progression upon the land. And this is true whether they move: per latera, that is, two legs of one fide together, which is Tollutation or ambling; or per diametrum, lifting one foot before, and the cross foot behind, which is succussation or trotting; or whether per frontem or quadratum, as Scaliger terms it, upon a square bale, the legs of both fides moving together, as Fregs and salient Animals, which is properly called leaping. For by these motions they are able to support and impel themselves in the water, without alteration in the stroak of their legs, or position of their bodies.

But with Man it is performed otherwise: for in regard of site he alters his natural posture and swimmeth prone; whereas he walketh crect. Again, in progression the arms move parallel to the legs,

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and the arms and legs unto each other; but in natation they interfect and make all forts of angles, And lastly, in progressive motion, the arms and legs do move successively, but in natation both together, all which aptly to perform, and so as to support and advance the body, is a point of Art, and such as some in their young and docile years could never attain. But although swimming be acquired by art, yet is there somewhat more of nature in it then we observe in other habits, nor will it strictly fall under that definition; for once obtained, it is not to be removed; nor is there any who from disuse did ever yet forget it.

Secondly, That persons drowned arise and float the ninth day when their gall breaketh, is a questionable determination both in the time and cause. For the time of floating, it is uncertain according to the time of putresaction, which shall retard or accelerate according to the subject and season of the year, for as we observed, Cats and Mice will arise unequally, and at different times, though drowned at the same. Such as are fat do commonly float soonest, for their bodies soonest ferment, and that substance approacheth nearest unto air; and this is one of Aristotles reasons why dead Eels will not float, because saith he, they have but slender bellies, and little sat.

Why drowned bodies float tier a time.

As for the cause, it is not so reasonably imputed unto the breaking of the gall as the putrefaction or corruptive simmentation of the body, whereby the unnatural heat prevailing, the putrifying parts do suffer a turgescence and inflation, and becoming aery and spumous affect to approach the air, and ascend unto the surface of the water. And this is also evidenced in Eggs, whereof the sound ones sink, and such as are addled swim, as do also those which are termed hypenemia or wind-eggs; and this is also a way to separate seeds, whereof such as are corrupted and steril, swim; and this agreeth not only unto the seed of plants lockt up and capsulated in their husks, but also unto the sperm and seminal humour of Man; for such a passage hath Aristosle upon the Inquisition and test of its fertility.

That the breaking of the gall is not the cause hereos, experience hath informed us. For opening the abdomen, and taking out the gall in Cats and Mice, they did notwithstanding arise. And because we had read in Rhodiginus of a Tyrant, who to prevent the emergency of murdered bodies, did use to cut off their lungs, and found Mens minds possessed with this reason; we committed some unto the water without lungs, which notwithstanding sloated with the others. And to compleat the experiment, although we took out the guts and bladder, and also personated the Cranium, yet would they arise, though in a longer time. From these observations in other Animals, it may not be unreasonable to conclude the same in Man, who is too noble a subject on whom to make them expresly,

and

and the casual opportunity to rare almost to make any. Now if any should ground this effect from gall or choler, because it is the highest humour and will be above the rest; or being the fiery humour will readiest surmount the water, we must confess in the common putrescence it may promote elevation, which the breaking of the bladder of gall, so small a part in Man, cannot considerably ad-

Lastly, That Women drowned float prone, that is, with their bellies downward, but Men supine or upward, is an affertion wherein the hots or point it felf is dubious; and were it true, the reason alledged for it, is of no validity. The reason yet currant was first expressed by Pliny, veluti pudori defunctorum parcente natura, nature modestly ordaining this position to conceal the shame of the dead; which hath been taken up by Solinus, Rhodiginus, and many more. This indeed (as Scaliger termeth it) is ratio civilis non philosophica, strong enough for morality of Rhetoricks, not for Philosophy or Physicks. For first, in nature the concealment of secret parts is the fame in both fexes, and the shame of their reveal equal: so Adam upon the tast of the fruit was ashamed of his nakedness as well as Eve. And so likewise in America and Countries unacquainted with habits, where modelty conceals these parts in one fex, it doth it also in the other; and therefore had this been the intention of nature, not only Women but Men also had swimmed downwards; the posture in reason being common unto both, where the intent is alfo common.

Again, While herein we commend the modelty, we condemn the wildom of nature: for that prone polition we make her contrive unto the Woman, were best agreeable unto the Man, in whom the fecret parts are very anteriour and more discoverable in a supine and upward posture. And therefore Scaliger declining this reason, hath recurred unto another from the difference of parts in both fexes; Quod ventre vasto sunt mulieres plenoque intestinis, itag, minus impletur & subsidet, inanior maribus quibus nates praponderant: If so, then Men, with great bellies will float downward, and only Calliprga, and Women largely composed behind, upward. But Anatomists observe, that to make the larger cavity for the Infant, the hanch bones in Women, and consequently the parts appendant are more protuberant then they are in Men. They who ascribe the cause unto the breatts of Women, take not away the doubt; for they resolve not why children float downward, who are included in that fex, though not of the cause in the reason alleadged. But hereof we cease to discourse, lest we whereof much undertake to afford a reason of the * golden tooth, that is, to in-dispute was vent or affign a cause, when we remain unsatisfied or unaffured of made, and at the effect.

last proved an That impollure.

That a Mare will fooner drown then a Horse, though commonly opinion'd, is not I fear experienced: nor is the same observed, in the drowning of whelps and Kitlins. But that a Man cannot shut or open his eyes under water, easie experiment may convict. Whether Cripples and mutilated Persons, who have lost the greatest part of their thighs, will not sing but float, their lungs being abler to wast up their bodies, which are in others overpoised by the hinder legs; we have not made experiment. Thus much we observe, that Animals drown downwards, and the same is observable in Frogs, when the hinder legs are cut off. But in the air most feem to perish headlong from high places; however Vulcan thrown from Heaven, be made to fall on his feet.

CHAP. VII.

Concerning Weight.

Hat Men weigh heavier dead then alive, if experiment hath not failed us, we cannot reasonably grant. For though the trial hereof cannot so well be made on the body of Man, nor will the difference be sensible in the abate of scruples or dragms, yet can we not confirm the same in lesser Animals, from whence the inference is good; and the affirmative of Pliny saith, that it is true in all. For exactly weighing and strangling a Chicken in the Scales; upon an immediate ponderation, we could discover no sensible difference in weight; but suffering it to lie eight or ten bours, untill it grew persectly cold, it weighed most sensibly lighter; the like we attempted, and verified in Mice, and performed their trials in Scales, that would turn upon the eighth or tenth part of a grain.

Now whereas some alledge that spirits are lighter substances, and naturally ascending, do elevate and wast the body upward, whereof dead bodies deing destitute, contract a greater gravity; although we concede that spirits are light, comparatively unto the body, yet that they are absolutely so, or have no weight at all, we cannot readily allow. For since Phylosophy affirmeth, that spirits are middle substances between the soul and body, they must admit of some corporiety, which supposeth weight or gravity. Beside, in carcasses warm, and bodies newly disanimated, while transpiration remaineth, there do exhale and breath out vaporous and fluid parts, which carry away some power of gravitation. Which though we allow, we

do not make answerable unto living expiration; and therefore the Chicken or Mice were not so light being dead, as they would have been after ten hours kept alive; for in that space a man abateth many ounces. Nor if it had slept, for in that space of sleep, a Man will sometimes abate fourty ounces; nor if it had been in the middle of summer, for then a Man weigheth some pounds less, then in the height of winter; according to experience, and the sta-

tick Aphorisms of Sanctorius.

Again, Whereas Men affirm they perceive an addition of ponderofity in dead bodies, comparing them usually unto blocks and stones, whensoever they lift or carry them; this accessional preponderancy is rather in appearance then reality. For being destitute of any motion, they confer no relief unto the Agents; or Elevators; which makes us meet with the same complaints of gravity in animated and living bodies, where the Nerves subside, and the faculty locomotive seems abolished; as may be observed in the lifting or supporting of persons inebriated, Apoplectical, or in Lypothymies and swoun-

dings.

Many are also of opinion, and some learned Men maintain, that Men are lighter after meals then before, and that by a supply and addition of spirits obscuring the gross ponderosity of the aliment ingested; but the contrary hereof we have found in the trial of sundry persons in different sex and ages, and we conceive Men may miltake if they distinguish not the sense of sevity unto themselves, and in regard of the scale or decision of trutination. For after a draught of wine, a Man may seem lighter in himself from sudden resection, although he be heavier in the balance, from a corporal and ponderous addition; but a Man in the morning is lighter in the scale, because in sleep some pounds have perspired; and is also lighter unto himself, because he is resected.

And to speek strictly, a Man that holds his breath is weightier while his lungs are full, then upon expiration. For a bladder blown is weightier then one empty, and if it contain a quart, expressed and emptied it will abate about a quarter of a grain. And therefore we somewhat mistrust the experiment of a pumice stone taken up by Montanus, in his Comment upon Avicenna, where declaring how the rarity of parts, and numerosity of pores, occasioneth a lightness in bodies, he affirms that a pumice-stone powdered, is lighter then one entire; which is an experiment beyond our satisfaction; for beside that abatement can hardly be avoided in the Trituration; if a bladder of good capacity will scarce include a grain of air, a pumice of three or four dragms, cannot be presumed to contain the hundred part thereof; which will not be sensible upon the exactest beams we use. Nor is it to be taken strictly which is de-

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livered by the learned Lord Verwlam, and referred unto further experiment; That a diffolution of Iron in aqua fortis, will bear as good weight as their bodies did before, notwithstanding a great deal of wast by a thick vapour that issueth during the working; for we cannot find it to hold neither in Iron nor Copper, which is diffolved with less ebullition; and hereof we made trial in Scales of good exactness: wherein if there be a defect, or such as will not turn upon quarter grains, there may be frequent militakes in experiments of this nature. That also may be considered which is delivered by Hamerus Poppius, that Antimony calcin'd or reduced to ashes by a burning glass, although it emit a gross and ponderous exhalation, doth rather exceed then abate its former gravity. Nevertheless, strange it is; how very little and almost insensible abatement there will be fometimes in such operations, or rather some encrease, as in the refining of metals, in the test of bone ashes, according to experience: and in a burnt brick, as Monsieur de Clave affirmeth. Mistake may be made in this way of trial, when the Antimony is not weighed immediately upon the calcination; but permitted the air, it imbibeth the humidity thereof, and so repaireth its gravity.

Bafilica Anti-

Des Pierres

CHAP. VIII.

of the passage of Meat and Drink.

Hat there are different passages for Meat and Drink, the Meat. or dry aliment descending by the one, the Drink or moistming vehicle by the other, is a popular Tenent in our daies, but was the affertion of learned men of old. For the same was affirmed by Plato, maintained by Eustathius in Macrobius, and is deducible from Eratosthenes, Eupolis and Euripides. Now herein Men contradict experience, not well understanding Anatomy, and the use of parts. For at the Throat there are two cavities or conducting parts; the one the Oesophagus or Gullet, seated next the spine, a part official unto nutrition, and whereby the aliment both wet and dry is. conveied unto the stomack; the other (by which tis conceived the Drink doth pass) is the weazon, rough artery, or wind-pipe, a part inservient to voice and respiration; for thereby the air descendeth. into the lungs, and is communicated unto the heart. And therefore all Animals that breath or have lungs, have also the weazon; but, many have the gullet or feeding channel, which have no lungs or windpipe; as fishes which have gils, whereby the heart is refrigerated; for fuch thereof as have lungs and respiration, are not without the weazon, as Whales and cetaceous Animals.

Again, Beside these parts destin'd to divers offices, there is a peculiar provision for the wind-pipe, that is, a cartilagineous flap upon the opening of the Larinx or Throttle, which hath an open cavity for the admission of the air; but lest thereby either meat or drink should descend. Providence hath placed the Epiglottis, Ligula, or flap like an Ivy leaf, which alwaies closeth when we swallow, or when the meat and drink passeth over it into the gullet. Which part although all have not that breath, as all cetaceous and oviparous Animals, yet is the weazon fecured fome other way; and therefore in Whales that breath, least the water should get into the lungs, an ejection thereof is contrived by a Fistula or spout at the head. And therefore also though birds have no Epiglottis, yet can they fo contract the rim or chink of their Larinx, as to prevent the admission of wet or dry ingested; either whereof getting cannot drink in, occasioneth a cough, until it be ejected. And this is the reason and breath at why a Man cannot drink and breath at the same time; why, if we once. laugh while we drink, the drink flics out at the nostrils; why, Anacreon the when the water enters the weazon, Men are suddenly drowned; Poet, if the and thus must it be understood, when we read of one that died by literally, the feed of a Grape, and another by an hair in milk.

Now if any shall still affirm, that some truth there is in the asfertion, upon the experiment of Hippocrates, who killing an Hog after a red potion, found the tincture thereof in the Larinx; if any will urge the same from medical practice, because in affections both of Lungs and weazon, Physitians make use of syrupes, and lambitive medicines; we are not averse to acknowledge, that some may distil and infinuate into the wind-pipe, and medicines may creep down, as well as the rheum before them; yet to conclude from hence, that air and water have both one common passage, were to state the question upon the weaker side of the distinction, and from a partial or guttulous irrigation, to conclude a total descension.

CHAP. IX.

of sneezing.

Oncerning Sernutation or Sneezing, and the custom of faluting or bleffing upon that motion, it is pretended, and generally believed to derive its original from a disease, wherein Sternutation proved mortal, and such as Sneezed, died. And this may feem to be proved from Carolus Sigonius, who in his History of Italy, makes mention of a Pestilence in the time of Gregory the Great, that proved pernitious and deadly to those that Sneezed. Which notwithstanding will not sufficiently determine the grounds hereof: that custom having an elder Era, then this Chronology affordeth.

For although the age of Gregory extend above a thousand, yet is this custom mentioned by Apuleius, in the Fable of the Fullers wife, who lived three hundred years before; by Pliny in that Problem of his, Cur Sternutantes Salutantur; and there are also reports that Tiberius the Emperour, otherwise a very sower Man, would perform this rite most punctually unto others, and expect the same from others, unto himself. Petronius Arbiter, who lived before them both, and was Proconful of Bythinia in the raign of Wero, hath mentioned it in these words, Gyton collectione spiritus plenus, ter continno ita sternutavit ut grabatum concuteret, ad quem motum Eumolpus conversus, Salvere Gytona jubet, Calius Rhodiginus hath an example hereof among the Greeks, far antienter then thefe, that is, in of Greek Epi. the time of Cyrus the younger; when consulting about their retreat, grams, Titulo it chanced that one among them Sneezed; at the noise whereof, the rest of the Souldiers called upon Jupiter Soter. There is also in the Greek Anthology, a remarkable intention hereof in an Epigram, upon one Proclus; the Latin whereof we shall deliver, as we find it often translated.

A Collection es develous.

> Non potis est Proclus digitis emungere nasum, Nama, est pro nasi mole pusilla manus: Non vocat ille Jovem sternutans, quippe nec audit Sternutamentum, tam procul aure sonat. Proclus with his hand his nose can never wipe, His hand too little is his nose to gripe; He Sneezing calls not Jove, for why? he hears Himself not Sneez, the sound's so far from's ears.

Nor was this only an ancient cultom among the Greeks and Romans, and is still in force with us, but is received at this day in Derebu Abafremotest parts of Africa. For so we read in Codignus; that upon gnorum. a Sneeze of the Emperour of Monomotapa, there paffed acclamations successively through the City. And as remarkable an example there is of the same custom, in the remotest parts of the East, secorded in the travels of Pinto.

But the history will run much higher, if we should take in the Rabinical account hereof; that Sneezing was a mortal fign even from the first Man; until it was taken off by the special supplication of Tacob. From whence, as a thankful acknowledgment, this falutation first began; and was after continued by the expression of To- Buxt. Lex, bim Chaiim, or vita bona, by standers by, upon all occasion of Snee- Chald.

zing.

Now the ground of this ancient custom was probably the opinion the ancients held of sternutation, which they generally conceiyed, to be a good fign or a bad, and so upon this motion accordingly used, a Salve or zo owor, as a gratulation for the one, and a deprecation for the other. Now of the waies whereby they enquired and determined its fignality; the first was natural, arising from Physical causes, and consequences oftentimes naturally succeeding this motion; and so it might be justly esteemed a good sign. Whence Ster-For Sneezing being properly a motion of the brain, fuddenly expel-nutation or ling through the nostrils what is offensive unto it, it cannot but af- Sneezing pro-ford some evidence of its vigour; and therefore saith Aristotle, they that hear it, aconuncor as ilegy, honour it as somewhat facred, Problem Section and a fign of Sanity in the diviner part; and this he illustrates from 31. the practice of Physitians, who in persons near death, do use Sternutatories, or fuch medicines as provoke unto Sneezing; when if In what cafes the faculty awaketh, and Sternutation enfueth, they conceive hopes a fign of good. of life, and with gratulation receive the figns of fafety. And fo is it also of good signality, according to that of Hippocrates, that Sneezing cureth the hicket, and is profitable unto Women in hard bour; and so is it good in Lethargies, Apoplexies, Catalepsies and Coma's. And in this natural way it is sometime likewise of bad 2. King. 4 35effects or figns, and may give hints of deprecation; as in diferes In what of of the cheft; for therein Hippocrates condemneth it as too much bad. exagitating : in the beginning of Catarrhs according unto Avicenna, as hindering concoction, in new and tender conceptions (as Pliny obferveth) for then it endangers abortion.

The second way was superstitious and Augurial, as Calins Rhodi. gimes hath illustrated in testimonies, as ancient as Theorieus and Homer: as appears from the Athenian Mafter, who would have retired, because a Boat-man Sneezed; and the testimony of Anstin,

that the Ancients were wont to go to bed again if they Sneezed while they put on their shoe. And in this way it was also of good and bad signification; so Aristotle hath a Problem, why Sneezing from noon unto midnight was good, but from night to noon unlucky? So Enstablins upon Homer observes, that Sneezing to the left hand was unlucky, but prosperous unto the right; so, as Plutarch relateth, when Themistocles sacrificed in his galley before the battle of Xerxes, and one of the affishants upon the right hand Sneezed; En. phrantides the Southsayer, presaged the victory of the Greeks, and the overthrown of the Persians.

Thus we may perceive the custom is more ancient then commonly conceived; and these opinions hereof in all ages, not any one disease to have been the occasion of this salute and deprecation. Arising at first from this vehement and affrighting motion of the brain, inevitably observable unto the standers by; from whence some finding dependent effects to ensue; others ascribing hereto as a cause what perhaps but casually or inconnexedly succeeded; they might proceed unto forms of speeches, felicitating the good, or de-

precating the evil to follow.

CHAP. X.

of the Jews.

Hat the Jews stink naturally, that is, that in their race and nation there is an evil favour, is a received opinion we know not how to admit; although concede many questionable points, and dispute not the verity of fundry opinions which are of affinity here-We will acknowledg that certain odours attend on animals, no less then certain colours; that pleasant smels are not confined unto vegitables, but found in divers animals, and some more richly then in plants. And though the Problem of Aristotle enquire why no animal smels sweet beside that Parde? yet later discoveries add divers forts of Monkeys, the Civet Cat and Gazela, from which our Musk proceedeth. We confess that beside the smell of the species, there may be individual odours, and every Man may have a proper and peculiar favour; which although not perceptible unto Man, who hath this fense, but weak, yet fensible unto Dogs, who hereby can fingle out their masters in the dark. We will not deny that particular Men bave sent forth a pleasant sayour, as Theophrastus and Platarch

report of Alexander the great, and Tzerzes and Cardan do teffifie of themselves. That some may also emit an unsavory odour, we have no reason to deny; for this may happen from the quality of what they have taken; the Fætor whereof may discover it self by sweat and urine, as being unmafterable by the natural heat of Man, not to be dulcified by concoction beyond an unfavory condition; the like may come to pals from putrid humours, as is often discoverable in putrid and malignant feavers. And fometime also in gross and humid bodies even in the latitude of fanity; the natural heat of the parts being insufficient for a perfect and through digestion, and the errors of one concoction not rectifiable by another. But that an unfavory odour is gentilitious or national unto the Jews, if rightly understood, we cannot well concede; nor will the information of

reason or sence induce it.

For first, Upon consult of reason, there will be found no easie affurance to fasten a material or temperamental propriety upon any nation; there being scarce any condition (but what depends upon clime) which is not exhaulted or obscured from the commixture of introvenient nations either by commerce or conquest; much more will it be difficult to make out this affection in the Tens; whose race however pretended to be pure, must needs have suffered inseparated commixtures with nations of all forts; not only in regard of their proselytes, but their universal dispersion; some being posted from feveral parts of the earth, others quite loft, and swallowed up in those nations where they planted. For the tribes of Ruben, Gad, part of Manasses and Napthali, which were taken by Assur, and the rest at the Sacking of Samaria, which were led away by Salmamasser into Assyria, and after a year and half arrived at Arsereth, as is delivered in Eldras; these I say never returned, and are by the fems as vainly expected as their Messias. Of those of the tribe of Judah and Benjamin, which were led captive into Babylon by Nebuchadnezzar, many returned under Zorobabel; the rest remained. and from thence long after upon invalion of the Saracens, fled as far as India; where yet they are faid to remain, but with little difference from the Gentiles.

The Tribes that returned to Judea, were afterward widely disperled; for beside sixteen thousand which Titus sent to Rome unto the triumph of his father Vespafian, he fold no less then an hundred thouland for flaves. Not many years after Adrian the Emperour, who ruined the whole Countrey, transplanted many thousands into Spain, from whence they dispersed into divers Countreys, as into France and England, but were banished after from both. From Spain they dispersed into Africa, Italy, Constantinople, and the Dominions of the Turk, where they remain as yet in very great numbers. And if (accerding to good relations) where they may freely speak it, they

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torbear not to boaft that there are at prefent many thousand Tom in Spane, France and England, and some dispensed withall even to the degree of Priesthood; it is a matter very considerable, and could they be fmelled out, would much advantage, not only the

Church of Christ, but also the coffers of Princes.

Now having thus lived in feveral Countries, and alwaies in lubjection, they must needs have suffered many commixtures; and we are fure they are not exempted from the common contagion of Venery contracted first from Christians. Nor as fornications unfrequent between them both; there commonly passing opinions of invitement, that their Women desire copulation with them rather then their own Nation, and affect Christian carnality above circumcifed venery. It being therefore acknowledged, that fome are lost, evident that others are mixed, and not affured that any are diftinct it will be hard to establish this quality upon the fews, unless weak fo transfer the same unto those whose generations are mixed, whose genealogies are Jewiso, and naturally derived from them.

Again, if we concede a National unfavourinels in any people, yet

shall we find the Jews less subject hereto then any, and that in those regards which most powerfully concur to such effects, that is, their diet and generation. As for their diet whether in obedience unto

The lens ge- the precepts of reason, or the injunctions of parlimony, therein they are very temperate; feldom offending in ebriety or excels of drink, nor erring in gulofity or superfluity of meats; whereby they prevent indigeftion and crudities, and consequently putrescence of They have in abomination all flesh maimed, or the in-

wards any way vitiated; and therefore eat no meat but of their own They observe not only fasts at certain times, but are restrained unto very few dishes at all times; so few, that whereas St. Peters theet will hardly cover our Tables, their Law doth fearce permit them to fet forth a Lordly feast; nor any way to answer the luxury of our times, or those of our fore-fathers. For of flesh their Law restrains them many forts, and such as compleat our

feasts: That Animal, Propter convivia natum, they touch not, nor any of its preparations, or parts so much in respect at Roman Tsbles, nor admit they unto their board, Hares, Conies, Herons, Plo-Quanti eft en vers or Swans. Of Fishes they only tast of such as have both fins

and scales; which are comparatively but few in number, such only, pros! Animal faith Aristotle, whose Egg or spawn is arenaceous; whereby are propter conve excluded all cetacious and cartilagious Fishes; many pectinal; whole via nature. ribs are rectilineal; many costal, which have their ribs embowed; all spinal, or such as have no ribs, but only a back bone, or some

what analogous thereto, as Eels, Conners, Lampries; all that are teltacc. us, as Offers, Cocles, Wilks, Scotlops, Mufcles; and likewife all

cruffaceous,

la, que sibi sotas ponit A.

nerally very

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crustaceous, as Crabs, Shrimps and Lobsters. So that observing a feare and simple diet, whereby they prevent the generation of crudities; and fasting often whereby they might also digest them; they must be less inclinable unto this infirmity then any other Nation,

whose proceedings are not so reasonable to avoid it.

As for their generations and conceptions (which are the purer from good diet,) they become more pure and perfect by the strict observation of their Law; upon the injunctions whereof, they severely observe the times of Purification, and avoid all copulation, either in the uncleanness of themselves, or impurity of their Women. A Rule, I fear, not so well observed by Christians; whereby not only conceptions are prevented, but if they proceed, so vitiated and defiled, that durable inquinations, remain upon the birth. Which, when the conception meets with these impurities, must needs be The original! very potent; fince in the purest and most fair conceptions, learned or material Men derive the cause of Pox and Menzels, from principles of that causes of the nature; that is, the menstrous impurities in the Mothers blood, and Pox and Meaand virulent tindures contraded by the Infant, in the nutriment of zels. the womb.

Lastly, Experince will convict it; for this offensive odor is no way discoverable in their Synagogues where many are, and by reason of their number could not be concealed : nor is the fame discernable in commerce or conversation with such as are cleanly in Apparel, and decent in their Houses. Surely the Viziars and Turkish Basha's are not of this opinion; who as Sr. Henry Blunt informeth, dogenerally keep a few of their private Counsel. And were this true, the Tems themselves do not strictly make out the intention of their Law, for in vain do they scruple to approach the dead, who livingly are cadaverous, or fear any outward pollution, whose temper pollutes themselves. And lastly, were this true, yet our opinion is not impartial; for unto converted Jews who are of the same seed, no Man imputeth this unfavoury odor; as though Aromatized by their conversion, they lost their scent with their Keligion, and smelt no longer then they savoured of the Jew.

Now the ground that begat or propagated this affertion, might be the distasteful aversness of the Christian from the Few, upon the villany of that fact, which made them abominable and stink in the nostrils of all Men. Which real practife, and metaphorical expression; did after proceed into a literal construction; but was a fraudulent illation; for such an evil savour their father Jacob acknow- Gen. 14. ledged in himself, when he said, his sons had made him stink in the land, that is, to be abominable unto the inhabitants thereof. Now how dangerous it is in feafible things to use metaphorical expressions unto the people, and what abfurd conceits they will faullow

in their literals; an impatient example we have in our profession; who having called an eaten vicer by the name of a Woolf, common apprehension conceives a reality therin; and against our selves,

ocular affirmations are pretended to confirm it.

The nastiness of that Nation; and sluttish course of life hath much promoted the opinion, occasioned by their servile condition at first, and inseriour ways of parsimony ever since; as is delivered by Mr. Sandys, They are generally sat, saith he, and rank of the savours which attend upon sluttish corpulency. The Epithetes assigned them by ancient times, have also advanced the same; for Ammianus Marcellinus describeth them in such language; and Martial more ancient, in such a relative expression sets forth unsavoury Basa.

Quod jejunia Sabbatoriorum. Mallem, quam quod oles, olere Bassa.

From whence notwithstanding we cannot infer an inward imperfection in the temper of that Nation; it being but an effect in the breath from outward observation, in their strict and tedious fasting; and was a common effect in the breaths of other Nations, became a Proverb among the Greeks, and the reason thereof begot a Pro-

blem in Aristotle.

Nuscius offer.

De serilitate Cruc. Med. Epiß.

Lastly, If all were true, and were this favour conceded, yet are the reasons alleadged for it no way satisfactory. Hucherins, and after him Alfarius Crucius, imputes this effect unto their abstinence from falt or falt meats; which how to make good in the prefent diet of the Jews, we know not; nor shall we conceive it was obferved of old, if we confider they feasoned every Sacrifice, and all oblations whatfoever; whereof we cannot deny a great part was eaten by the Priests. And if the offering were of flesh, it was salted no less then thrice, that is, once in the common chamber of falt, at the foot-step of the Altar, and upon the top thereof, as is at large delivered by Maimonides. Nor if they refrained all falt, is the illation very urgent; for many there are not noted for ill odours, which eat no falt at all; as all carnivorous Animals, most Children, many whole Nations, and probably our Fathers after the Creation; there being indeed in every thing we eat, a natural and concealed falt, which is separated by digestions, as doth appear in our tears, sweat and urines, although we refrain all salt, or what doth feem to contain it.

Another cause is urged by Campegius, and much received by Christians; that this ill savour is a curse derived upon them by Christ, and stands, as a badge or brand of a generation that crucified their Salvator. But this is a conceit without all warrant; and an easie way to take off dispute in what point of obscurity soever. A medoth of many Writers, which much depreciates the esteem and va-

luc

me of miracles; that is, therewith to falve not only real verities, but also monexistencies. Thus have elder times not only ascribed the immunity of Ireland from any venemous beaft, unto the staff or fod of Parick; but the long tails of Kent , unto the malediction per coo redulous, herein was more t'en dubious y l'arittuteife

Thus therefore y although we conceded that many opinions are true which hold fome conformity unto this, eyet in affenting hereto, many difficulties must arise: it being a dangerous point to annex a constant property unto any Nation, and much more this unto the Jen; fince this quality is not verifiable by observation; fince the grounds are feeble that should establish it, and lastly; since if all were true, yet are the realons alleadged for it, of no sufficiency to look of series Ancholo, that is, the wary and evaluate nistnien

guerr ton that together a colden to the hand traine phrowen to such the pulperal it gaile quit entities of the late to give a standard to the control of the such that a both the control of the

work of right handred talents, as estherow terms it, although ever voin our to graduit todo of Pigmies, chance a bande the

DY Pigmies we understand a dwarfish race of people, or lowest diminution of mankind, comprehended in one cubit, or as fome will have it, in two foot or three fpans; not taking them finale, but nationally confidering them, and as they make up an aggregated habitation. Whereof although affirmations be many, and tellimonies more frequent then in any other point which wife men have ralt into the lift of fables, yet that there is, or ever was such a rice or Nation, upon exact and confirmed tellimonies, our frictof enquiry receives no latisfaction the work of the

I fay, exact testimonies, first, In regard of the Authors, from whom we derive the account, for though we meet herewith in Heredotus, Philostratus, Mela, Pliny, Solinus, and many more; yet were they derivative Relators, and the primitive Author was Homer; who outing often fimilies, as well to delight the ears as to illustrate his matter in the third of his Iliads, compareth the Trojans, unto Cranes, when they descend against the Pigmies; which was more largely fee out by Oppian , Juvenal , Manguan, and many Poets fince, and being only a pleasant figment in the fountain, became a folemn flory in the stream, and current still among us.

Again, Many professed enquirers have rejected it , Strabo an exact. and judicious Geographer, hath largely, condemned it as a fabulous Rory, Julius Scaliger a diligent enquirer, accounts thereof, but as at

Poetical fiction; Olyffes Aldrogandes a most exact Zoographer in an express discourse hereon, concludes the story, fabulous, and a Poe. tical account of Homer; and the same was formerly conceived by Enstathine, his excellent Commentator. Albertus Magnus a man ofetimes too credulous, herein was more then dubious; for he affirmethy if any fucho dwarfs were ever extant, they were furely fome kind of Apes ! which is a conceit allowed by Cardan, and not effec. med improbable by many others.

Hiff.animal. leb. 1.

There are I confess two testimonies, which from their authority admit of confideration. The first of Aristotle, whose words are thefe, in Mo nico, &cc. That is, His locus eft quem incolunt Pygmai, non enim id fabula eft, fed publium genus ut aiunt. Wherein indeed Aristotle plaies the Aristotle, that is, the wary and evading affertor; For though with non est fabula, he seems at first to confirm it, yet at the last he claps in, Sciunt aiunt, and shakes the belief he put before upon it. And therefore I observe Scaliger hath not translated the first; perhaps supposing it surreptitious or unworthy fo great an affertor. And truly for those books of animals, or work of eight hundred talents, as Athenaus terms it, although ever to be admired, as containing most excellent truths; yet are many things therein delivered upon relation, and some repugnant unto the liftory of our fenses; as we are able to make out in some, and Sca. liger hath observed in many more, as he hath freely declared in his Comment upon that piece.

excellent dif.

tellimt.

The recond teltimony is deduced from holy Scripture; thus rende red in the vulgar translation, Sed & Pygmai qui erant in turribus tuis phareiras suas suspenderunt in muris tuis per gyrum: from whence notwithflanding we cannot infer this affertion, for first the Translators accord not, and the Hebrew word Gammadim is very variously rendered. Though Aquila, Vetablus and Lyra will have it Promais yet in the Septuagint, it is no more then Watchmen ; and fo in the Mrabick and high Durch. In the Chalde, Cappadocians, in Symmachus, Medes, and in the French, those of Gamad. Theodotian of old, and Tremellins of late, have retained the Textuary word; and so have the Italian, Low Duth and English Translators, that is, the Men of Arvad were upon thy walls round about, and the Gammatims were in Caner, when they deleand against the Pigmies; thy Towers. Nor do men only diffent in the Translation of the word, but in

the Exposition of the fense and meaning thereof; for some by Gammidims understand a people of Syrin, so called from the City Ga-See M. Ful'er mala; fome hereby understand the Cappadorians, many the Medes: and hereof Forering hath a fingular Expolition, conceiving the Watchmen of Tyre, might well be ealled Pigmies; the Towers of that

City

City being so high, that unto Men below, they appeared in a cuhital Mature, d Others expounded it quite contrary to common acception, that is not Men of the least, but of the largest fize; fo doth Cornelius construe Pogmai, or viri cubitales, that is, not Men of a cubit high, but of the largest stature, whose height like that of Giants, is rather to be taken by the cubit then the foot; in which phrase we read the measure of Goliah, whose height is said to be fix cubits and a span. Of affinity hereto is also the Exposition of Ferom; not taking Pigmies for dwarfs, but stout and valiant Champions; not taking the fense of woyun, which fignifies the cubit meafure, but that which expresseth Pugils; that is, Men fit for combat and the exercise of the fift. Thus can there be no satisfying illation from this Text, the diversity or rather contrariety of Expositions and interpretations, diffracting more then confirming the truth of the story.

Again, I say, exact testimonies; in reference unto circumstantial relations for diverfly or contrarily delivered. Thus the Relation of riftotle placeth them above Egypt towards the head of Wyle in Africa; Philostratus affirms they are about Ganges in Asia, and Plam in a third place, that is, Gerania in Scythia: some write they fight with Cranes, but Menecles in Atheneus affirms they fight with Partridges, some say they ride on Partridges, and some on the backs

Lastly, I say, confirmed testimonies; for though Panlus Jorius delivers there are Pigmies beyond Japan; Pigafeta, about the Molucca's; and Olaus Magnus placeth them in Greenland; yet wanting frequent confirmation in a matter so confirmable, their affirmation carrieth but flow perswasion; * and wife men may think there is The store as much reality in the † Pigmies of Paracelfus; that is, his non-Ada- of Pigmies re-

mical men, or middle natures betwixt men and fpirits.

There being thus no sufficient confirmation of their verity, some the Pigmies doubt may arise concerning their possibility, wherein, since it is not res and other defined in what dimensions the soul may exercise her faculties, wespirits about shall not conclude impossibility; or that there might not be a race the cauch as by of Pigmies, as there is fometimes of Giants. So may we take in Nymphs and the opinion of Austin, and his Comment Ludovicus, but to believe spirits of fice they should be in the stature of a foot or span, requires the preaf- and water. Lib. pection of fuch a one as Philetas the Poet in Athenaus; who was De Pigman. fain to fasten lead unto his feet lest the wind should blow him a. Nymphia &c. way. Or that the other in the same Author, who was so little nt ad obolum accederet; a story so strange, that we might herein excuse the PRINTER, did not the account of Alian accord unto it, as Causabone hath observed in his learned Animadversions.

Lastly, If any such Nation there were, yet is it ridiculous what li 2 Men

Men have delivered of them; that they fight with Cranes upon the backs of Rams or Pareridges; or what is delivered by Crefin, that they are Negroes in the middelt of India; whereof the King of the Country, entertaineth three thousand Archers for his guard. Which is a relation below the tale of Oberon; nor could they better defend him, then the Emblem saith, they offended Hereules whilest he slept; that is, to wound him no deeper, then to awake him.

CHAP. XII.

wnich expresent begile, inities, bien fie eich

forms; not plaing Porter for dworfs, but foot and valient Clares.

Of the great Climacterical year, that is, Sixty three.

Ertainly the Eyes of the understanding, and those of the sense are differently deceived in their greatest objects; the sense apprehending them in leffer magnitudes then their dimensions require; fo it beholdeth the Sun, the Stars, and the Earth it felf. But the understanding quite otherwise: for that ascribeth unto many things far larger horizons then their due circumscriptions require; and teceiveth them with amplifications which their reality will not admit Thus hath it fared with many Heroes and most worthy persons, who being sufficiently commendable from true and unquestionable merits, have received advancement from falshood and the fruitful stock of Fables. Thus hath it happened unto the Stars, and Luminaries of heaven : who being fufficiently admirable in themselves, have been set out by effects, no way dependent on their efficiencies, and advanced by amplifications to the questioning of their true endowments. Thus is it not improbable it hath also fared with number, which though wonderful in it felf, and sufficiently magnifiable from its demonstrable affections, hath yet received adjections from the multiplying conceits of men, and stands laden with additions, which its equity will not admit.

And so perhaps hath it happened unto the number, 7 and 9, which multiplied into themselves do make up Sixty three, commonly esteemed the great Climacterical of our lives. For the daies of men are usually cast up by Septenaries, and every seventh year conceived to carry some altering character with it, either in the temper of body, mind, or both. But among all other, three are most remarkable, that is, 7 times 7 or fourty nine, 9 times 9 or eighty one, and 7 times 9 or the year of Sixty three; which is conceived to carry with it the most considerable statility; and consisting of

both

both, the other numbers was apprehended to comprise the vertue The great of either: is therefore expected and entertained with fear, and estee. Climater cal, med a favour of fate to pass it over. Which notwithstanding manuch dange ny suspect to be but a Panick terrour, and men to sear they justly rous year know not what: and to speak indifferently, I find no satisfaction:

nor any sufficiency in the received grounds to establish a rational fear. Now herein to omit Astrological considerations (which are but rarely introduced) the popular foundation whereby it hath continued, is sirst, the extraordinary power and secret virtue conceived to attend these numbers whereof we must consess there have not wanted not only especial commendations, but very singular conceptions. Among Philosophers, Pythagorus seems to have played the leading part; which was long after continued by his disciples, and the statick School. The Philosophy of Plate, and most of the Platonists abounds in numeral considerations: above all, Philo the learned Jew, hath acted this part even to superstitions bestowing divers pages in summing up every thing, which might advantage this number. Which notwithstanding, when a serious Reader shall perpend, he will hardly find any thing that may convince his judgment, or any

further perswade, then the senity of his belief, or prejudgment of reason inclineth.

For first, Not only the number of and o from considerations abstrule, have been extolled by most, but all or most of the other digits have been as mystically applauded. For the number of One and Three have not been only admired by the Heathens, but from adorable grounds, the unity of God, and mystery of the Trinity admired by many Christians. The number of four stands much admired, not only in the quaternity of the Elements, which are the principles of bodies, but in the letters of the Name of God, which in the Greek, Arabian, Persian, Hebrew, and Egyptian, consisteth of that number; and was so venerable among the Pythagorians, that they swore by the number four. That of fix hath found many leaves in its favour; not only for the daies of the Creation, but its natural confideration, as being a perfect number, and the first that is compleated by its parts; that is, the fixt, the half, and the third, 1. 2. 3. Which drawn into a furn, make fix. The number of Ten hath been as highly extolled, as containing even, odd, long, plain, quadrate and cubical numbers; and Aristotle observed with admiration, that Barbarians as well as Greeks, did use numeration unto Ten, which being so general, was not to be judged casual, but to have a foundation in nature. So that not only 7 and 9, but all the rest have had their Elogies, as may be observed at large in Rhodiginis, and in leveral Writers fince: every one extolling number, according to his subject, and as it advantaged the present discourse in hand.

Again,

Again, They have been commended not only from pretended grounds in nature, but from artificial, casual or fabulous foundations: to have some endeavoured to advance their admiration, from the of Muses, from the 7 Wonders of the World, from the 7 Gates of Thebes: in that 7 Cities contended for Homer, in that there are 7 Stars in Ursa minor, and 7 in Charles wayn, or Plaustrum of Ursa major. Wherein indeed although the ground be natural, yet either from constellations or their remarkable parts, there is the like occasion to commend any other number, the number 5 from the stars in Sagitta, 3 from the girdle of Orion, and 4 from Equiculus, Crusero, or the seet of the Centaur: yet are such as these clapt in by very good Authors, and some not omitted by Philo.

Nor are they only extolled from Arbitrary and Poetical grounds, but from foundations and principles, false, or dubious. That Women are menstruant, and Men pubescent at the year of twice seven is accounted a punctual truth: which period nevertheless we dare not precisely determine, as having observed a variation and latitude in most, agreeable unto the heat of clime or temper, Men arising variously unto virility, according to the activity of causes that promote it. Sanguis menstruosus ad diem, ut plurimum, septimum durat, saith Philo. Which notwithstanding is repugnant unto experience, and the doctrine of Hippocrates, who in his book, de diata, plainly affirmeth, it is thus but with few women, and only such as abound

with pituitous and watery humours.

It is further conceived to receive addition, in that there are 7 heads of Nyle, but we have made manifest elsewhere, that by the description of Geographers, they have been sometime more, and

are at present fewer.

In that there were 7 Wise men of Greece, which though generally received, yet having enquired into the verity thereof we cannot so readily determine it, for in the life of thales, who was accounted in that number, Diogenes Laertius plainly saith, Magna de corum numero discordia est; some holding but sour, some ten, others twelve, and none agreeth in their names, though according in their number.

Nuncius Syde-

In that there are just 7 Planets or errant Stars in the lower orbs of Heaven, but it is now demonstrable unto sense, that there are many more; as Galileo hath declared, that is, two more in the orb of Saturn, and no less then four more in the sphere of Jupiter. And the like may be said of the Pleiades or 7 Stars, which are also introduced to magnific this number, for whereas scarce discerning six, we account them 7, by his relation, there are no less then fourty.

That the Heavens are encompassed with 7 Circles, is also the allegation of Philo; which are in his account, the Artick, Antartick,

the Summer and Winter Propicks, the Equator, Zodiack, and the Milky circle; whereas by Aftronomers they are received in greater number. For though we leave out the Lacteous circle (which Aratus, Geminus, and Proclus, out of him hath numbred among the rest) yet are there more by four then Philo mentions; that is, the Horizon, Meridian and both the Colures; circles very confiderable, and generally delivered, not only by Ptolomie, and the Astronomers fince his time, but fuch as flourished long before, as Hipparchus and Endoxus. So that for ought I know, if it make for our purpole, or advance the theme in hand, with equal liberty, we may affirm there were 7 Sybils, or but 7 figns in the Zodiack circle of Heaven.

That verse in Virgil translated out of Homer, O terg, quaterg, bea- Teis panages ti; that is as men will have it, 7 times happy, hath much advanced Auruel 194 11this number in critical apprehensions; yet is not this construction seizes. so indubitably to be received, as not at all to be questioned : for though Rhediginus, Berealdus, and others from the authority of Macrobine so interpret it, yet Servius his ancient commentator conceives no more thereby then a finite number for indefinite, and and that no more is implied then often happy. Strabo the ancien- Lib. 10. test of them all, conceives no more by this in Homer, then a full and excessive expression; whereas in common phrase and received language, he should have termed them thrice happy; herein exceeding that number, he called them four times happy, that is, more then thrice. And this he illustrates by the like expression of Homer, in the speech of Circe; who to express the dread and terrour of the Ocean, sticks not unto the common form of speech in the strict account of its reciprocations, but largely speaketh, saith, it ebbs and flows no less then thrice a day, terg, die revomit fluctus, iterumg, reforbit. And so when tis said by Horace, falices ter & amplius, the exposition is sufficient, if we conceive no more then the letter fairly beareth, that is, four times, or indefinitely more then thrice.

But the main confiderations which most fet of this number, are observations drawn from the motions of the Moon, supposed to be measured by sevens; and the critical or decretory daies dependent on that number. As for the motion of the Moon, though we grant it to be measured by sevens, yet will not this advance the fame before its fellow numbers; for hereby the motion of other Stars are measured, the fixed Stars by many thousand years, the Sun By 365 daies, the superiour Planets by more, the inferiour by somewhat less. And if we consider the revolution of the first Movable, and the daily motion from East to West, common unto all the Orbs, we shall find it measured by another number, for being performed in four and twenty hours, it is made up of 4 times 6: and his is the measure and standard of other parts of time, of months,

of years, Olympiades, Lustres, Indictions of Cycles Jubilies

month is. De offemefiri Par 115.

Again, Months are not only Lunary, and measured by the Moon. What a Solary but allow Solary, and determined by the motion of the Sun; that is, the space wherein the Sun doth pass 30 degrees of the Ecliptick By this month Hippocrates computed the time of the Infants gestation in the womb; for o rimes 30, that is, 270 daies, or compleat o months, make up forty weeks, the common compute of women. And this is to be understood when he faith, 2 daies makes the fifteenth, and 3 the tenth part of a month. This was the month of the anci. ent Hebreps before their departure out of Egyps : and horeby the compute will fall out right, and the account concur, when in one place it is faid, the waters of the flood prevailed an hundred and fifty daies, and in another it is delivered, that they prevailed from the seventeenth day of the second month, unto the seventeenth, day of the feventh. As for hebdomadal periods or weeks, although in regard of their Sabbaths, they were observed by the Hebrent, yet it is not apparent; the ancient Greeks or Romans used any : but had another division of their months into Ides, Nones and Calends.

Moreover, Moneths howfoever taken, are not exactly divisible into feptenaries or weeks, which fully contain leven daies : whereof four times do make compleatly twenty eight. For, beside the usual or Calendary month, there are but four confiderable : the month of Peragration, of Apparition, of Confecution, and the medical or Decretorial month; whereof some come thort, others exceed this. account. A month of Peragration, is the time of the Moons revolution from any part of the Zodiack, unto the same again: and this containeth but 27 daies, and about 8 hours: which cometh short to compleat the septenary account. The month of Consecution, or as, some will term it, of progression, is the space between one conjunction of the Moon with the Sun, unto another: and this contain neth 29 daies and an half: for the Moon returning unto the fame point wherein it was kindled by the Sun, and not finding it there again (for in the mean time, by its proper motion it hath passed through 2 figns) it followeth after, and attains the Sun in the space of a daies and 4 hours more, which added unto the account of Reraggation, make 20 daies and an half: fo that this month exceedeth the latitude of Septenaries, and the fourth part comprehendeth more then 7 daies. A month of Apparition, is the space wherein the Moon appeareth (deducting three daies wherein it commonly difappeareth; and being in combustion with the Sun, is presumed of less activity,) and this containesh but 26 daies and 12 hours. The medical month, not much exceedeth this, consisting of 25 daies and 22 hours, and is made up out of all the other months. For if out of

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20 and an half, the month of Contecution, we deduct 3 daies of disappearance, there will remain the month of Apparition - 6 daics and 12 hours: whereto if we add 27 daies and 8 hours, the month of Peragration, there will arise 53 daies and 10 hours, which divided by 2, makes 26 daies and 22 hours : called by Physitians the medical month: introduced by Galen against Archigenes, for the bet-

ter compute of Decretory or Critical daies.

As for the Critical daies (fuch I mean wherein upon a decertati- What a Crition between the disease and nature, there ensueth a sensible alterati- cal day is. on, either to life or death,) the reasons thereof are rather deduced from Astrology, then Arithmetick: for accounting from the beginning of the difease, and reckoning on unto the seventh day, the Moon will be in a Tetragonal or Quadrate aspect, that is, 4 signs removed from that wherein the disease began : in the fourteenth day it will be in an opposite aspect: and at the end of the third feptenary, Tetragonal again: as will most graphically appear in the figures of Astrologers, especially Lucas Gauricus, De diebus decre-

Again, (Beside that computing by the Medical month, the first hebdomade or septenary consists of 6 daies, seventeen hours and an half, the second happeneth in 13 daies and eleven hours, and the third but in the twentieth natural day) what Galen first, and Aben-Erra since observed in his Tract of Critical daies, in regard of Eccentricity and the Epicycle or leffer orb wherein it moveth, the motion of the Moon is various and unequal; whereby the Critical account must also vary. For though its middle motion be equal, and of 13 degrees, yet in the other it moveth fometimes fifteen, sometimes less then twelve. For moving in the upper part of its orb, it performeth its motion more flowly then in the lower; infomuch that being at the height, it arriveth at the Tetragonal and oppolite figns fooner, and the Critical day will be in 6 and 13; and being at the lowest, the critical account will be out of the latitude of 7, nor happen before the eighth or ninth day. Which are confiderations not to be neglected in the compute of decretory daies, and manifeltly declare that other numbers must have a respect herein as well as 7 and fourteen. decretedo

Lastly, Some things to this intent are deduced from holy Scripture; thus is the year of Jubile introduced to magnificath is number, as being a year made out of 7 times 7; wherein not with standing there may be a misapprehension; for this ariseth not from 17 times 7, that is, 49; but was observed the fiftieth year, as is expressed, And you shall hallow the fiftieth year, a Jubile shall that, fiftieth year Levin as . be unto you. An actable whereto is the Exposition of the Jews themselves, as is delivered by Sen-Maimon; that is, the yest of

Jubile, cometh not into the account of the years of 7, but the fourty ninth is the Release, and the fiftieth the year of Jubile.

Thus is it also esteemed no small advancement unto this number, that the Genealogy of our Saviour is summed up by 14, that is, this number doubled; according as is expressed. So all the generations from Abraham to David are sourceen generations, and from David unto the carrying away into Babylon, are sourceen generations; and from the carrying away into Babylon unto Christ, are sourceen generations. Which nevertheless must not be strictly understood as numeral relations require; for from David unto Jeconiah are accounted by Matthen but 14 generations; whereas according to the exact account in the History of Kings, there were at least 17; and 3 in this account, that is, Abazias, Joss and Amazias are lest out. For so it is delivered by the Evangelist: And Joran begat Ozias: whereas in the regal Genealogy there are 3 successions between: for Ozias or Uzziah was the son of Amazias, Amazias of Joss, Joss of Azariah, and Azariah of Joram: so that

strictly to be drawn unto the rigid test of numbers. Lastly, Though many things have been delivered by Authors concerning number, and they transferred unto the advantage of their nature, yet are they oft-times otherwise to be understood, then as they are vulgarly received in active and causal considerations; they being many times delivered Hieroglyphically, Metaphorically, Illustratively, and not with reference unto action or causality. True it is, that God made all things in number, weight and measure, yet nothing by them or through the efficacy of either. Indeed our daies, actions and motions being measured by time (which is but motion measured) what ever is observable in any, fals under the account of some number; which notwithstanding cannot be denominated the cause of those events. So do we injustly affign the power of Action even unto Time it self; nor do they speak properly who fay that Time consumeth all things; for Time is not effective, nor are bodies destroyed by it, but from the action and paffion of their Elements in it; whose account it only affordeth: and measuring out their motion, informs us in the periods and terms of their durati-

in strict account, Jorann was the Abavus or Grand-sather twice removed, and not the Father of Ozias. And these second omitted descents made a very considerable measure of time, in the Royal chronology of Judah: for though Azariah reigned but one year, yet Joss reined sourty, and Amazias no less then nine and twenty. However therefore these were delivered by the Evangelist, and carry (no doubt) an incontroulable conformity unto the intention of his delivery: yet are they not appliable unto precise numerality, nor

on, rather then effecteth or physically produceth the same.

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A fecond confideration which promoteth this opinion, are confirmations drawn from Writers, who have made observations, or set De annie Clidown favourable reasons for this Climacterical year; so have Henri- matterici. ens Ranzovius, Baptista Codronchus, and Levinus Lemnius much con-neture mirafirmed the fame; but above all, that memorable Letter of Angustus cuin. fent unto his Nephew Cains, wherein he encourageth him to celebrate his nativity, for he had now escaped Sixty three, the great Cli- Bel. lib. 5. macterical and dangerous year unto man: which notwithstanding rightly perpended, it can be no fingularity to question it, nor any

new Paradox to deny it.

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For first, It is implicitely, and upon consequence denied by A. ristotle in his Politicks, in that discourse against Plato, who measured the viciffitude and mutation of States, by a periodical fatality of number. Ptolomie that famous Mathematician plainly faith, he will not deliver his doctrines by parts and numbers which are ineffectual. and have not the nature of causes; now by these numbers saith Rodiginus and Mirandula, he implieth Climacterical years, that is, septenaries, and novenaries fet down by the bare observation of numbers. Cenforinus an Author of great authority, and sufficient anriquity, speaks yet more amply in his book De die Natali, wherein expresly treating of Climacterical daies, he thus delivereth himself. Some maintain that 7 times 7, that is, fourty nine, is most dangerous of any other, and this is the most general opinion; others unto 7 times 7, add 9 times 9, that is, the year of eighty one, both which confisting of square and quadrate numbers, were thought by Plate and others to be of great confideration; as for this year of Sixty three or 7 times 9, though some esteem it of most danger, yet do I conceive it less dangerous then the other; for though it containeth both numbers above named, that is, 7 and 9, yet neither of them square or quadrate; and as it is different from them both, sois it not potent in either. Nor is this year remarkable in the death of many famous men. I find indeed that Aristotle died this year, but he by the vigour of his mind, a long time sustained a natural infirmity of stomack; so that it was a greater wonder he attained unto Sixty three, then that he lived no longer. The Pfalm of Moses hath mentioned a year of danger differing from all these : and that is ten times 7 or seventy; for so it is said, The daies of Man are threescore and ten. And the very same is affirmed by Solon, as Herodotus relates in a speech of his unto Crasus, Ego annis septuaginta humana vite modum definio: and furely that year must be of greatest danger, which is the Period of all the rest; and fewest safely pals thorow that, which is fet as a bound for few or none to pass. And therefore the confent of elder times, fetling their conceits upon Cliamackers, not only differing from this of ours, but one another; K. k. 2.

though several Nations and Ages do fancy unto themselves different years of danger, yet every one expects the same event, and constant

verity in each.

Again, Though Varro divided the daies of man into five proportions, Hippocrates into 7, and Solon into 10; yet probably their divisions were to be received with latitude, and their considerations not strictly to be confined unto their last unities. So when Varro extendeth Puertia unto 15. Adolescentia unto 30. Juventus unto 35. There is a latitude between the terms or Periods of compute, and the verity holds good in the accidents of any years between them. So when Hippocrates divideth our life into 7 degrees or flages, and maketh the end of the first 7. Of the second 14. Of the third 28. Of the fourth 35. Of the fift 47 Of the fixt 56. And of the seventh, the last year when ever it happeneth; herein we ob. ferve, he maketh not his divisions precisely by 7 and 9, and omits the great Climacterical; beside there is between every one at least the latitude of 7 years, in which space or interval, that is either in the third or fourth year, what ever falleth out is equally verified of the whole degree, as though it had happened in the feventh. Solon divided it into ten Septonaries, because in every one thereof, a man received some sensible mutation; in the first is Dedention or falling of teeth: in the fecond Pubescence; in the third the beard groweth; in the fourth strength prevails; in the fift maturity for iffue; in the fixt moderation of appetite : in the seventh prudence, &c. Now herein there is a tolerable latitude, and though the division proceed by 7, yet is not the total verity to be restrained unto the last year; nor constantly to be expected the beard should be compleat at 21. or wildom acquired just in 49. and thus also though 7 times 9, contain one of those septenaries, and doth also happen in our declining years; yet might the events thereof be imputed unto the whole septenary; and be more reasonably entertained with some latitude, then strictly reduced unto the last number, or all the accidents from 56. imputed unto Sixty three.

Thirdly, Although this opinion may feem confirmed by observation, and men may say it hath been so observed, yet we speak also upon experience, and do believe that men from observation will collect no satisfaction. That other years may be taken against it, especially if they have the advantage to precede it; as sixty against sixty three, and sixty three against sixty six. For sewer attain to the latter then the former; and so surely in the first septenary do most die, and probably also in the very first year; for all that ever lived were in the account of that year; beside the infirmities that attend it are so many, and the body that receives them so tender and incen-

firmed, we scarce count any alive that is not past it.

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Fabritins Paduanius discourling of the great Climacterical, at De caseng comtempts a numeration of eminent men, who died in that year; but in poris. so small a number, as not sufficient to make a considerable Induction. He mentioneth but four, Diogenes Cynicus, Dyonysius Heracleotions, Xenocrates Platonicus, and Plato. As for Dionysius, as Cenforinus witnesseth, he famished himself in the 82 year of his life; Xenocrates by the testimony of Laertins fell into a cauldron, and died the same year: and Diogenes the Synick, by the same testimony lived almost unto ninety. The date of Plato's death is not exactly agreed on, but all dissent from this which he determineth : Neanthes in Laertius extendeth his daies unto 84. Suidas unto 82. But Hermippus defineth his death in 81. And this account seemeth most exact; for if, as he delivereth, Plato was born in the 88 (lympiade, and died in the first year of the 108, the account will not surpass the year of 81, and so in his death he verified the opinion of his life, and of the life of man, whose period, as Censorinus recordeth, he placeth in the Quadrate of 9 or 9 times 9, that is, eighty one: and therefore as Seneca delivereth, the Magicians at Athens did facrifice unto him, as declaring in his death fomewhat above humanity; because he died in the day of his nativity, and without deduction justly accomplished the year of eighty one. Fodine I confess, delivers a larger lift of men that died in this year, Moriuntur innume- Method. Hiftrabiles anno sexagesimo tertio, Aristotetls, Chrisippus, Bocatius, Bernardus, Erasmus, Lutherus, Melancthon, Sylvius, Alexander, Jacobus Sturmius, Nicolaus Causanus, Thomas Linacer, codem anno Cicero casus est. Wherein, beside that it were not difficult to make a larger Catalogue of memorable persons that died in other years, we cannot but doubt the verity of his Induction. As for Sylvius and Alxander, which of that name he meaneth I know not; but for Chrysippus, by the testimony of Laertius, he died in the 73 year, Bocatius in the 62, Linacer the 64, and Erasmus exceedeth 70, as Paulus Jovius hath delivered in his Elogy of learned men. And as for Cicero, as Plutarch in his life affirmeth, he was flain in the year of 46; and therefore fure the question is hard set, and we have no easie reason to doubt, when great and entire Authors shall introduce injuftifiable examples, and authorize their affertions by what is not authentical.

Fourthly, They which proceed upon strict numerations, and will by fuch regular and determined waies measure out the lives of men, and periodically define the alterations of their tempers; conceive a regularity in mutations, with an equality in constitutions, and forget that variety, which Physitians therein discover. For feeing we affirm that women do naturally grow old before Chol rick men, that the cholerick fall short in longavity of the fanguine mencommonthat there is fenium ante senettum, and many grow old before ped,

they arrive at age, we cannot affix unto them all one common point of danger, but should rather assign a respective satality unto each. Which is concordant unto the doctrin of the numerists, and such as maintain this opinion: for they affirm that one number respecteth Men, another Women, as Bodin, explaineth that of Seneca Septimus quisignannus atati signum imprimit, subjoins Hoc de maribus distum, opportuit, hoc primum intueri licet, persectum numerum, id est, sextum

faminas septenarium mares immutare.

Fiftly, Since we esteem this opinion to have some ground in nature, and that nine times seven revolutions of the Sun, imprints a dangerous Character on such as arrive unto it; it will have some doubt behind, in what subjection hereunto were the lives of our foresathers presently after the flood, and more especially before it; who attaining unto 8 or 900 years, had not their Climacters Computable by digits, or as we do account them; for the great Climacterical was past unto them before they begat Children, or gave any Testimony of their virility; for we read not that any begat children before the age of sixty sive. And this may also afford the lint to enquire, what are the Climacters of other animated creatures; whereof the lives of some attain not so far as this of ours, and that of others extend a considerable space beyond it.

Lastly, The impersed accounts that Men have kept of time, and the difference thereof both in the same and divers common Wealths, will much distract the certainty of this affertion. For though there were a fatality in this year, yet divers were, and others might be out in their account, aberring several waies from the true and just compute, and calling that one year, which perhaps might be ano-

ther.

For first, They might be out in the commencement or beginning of their account; for every man is many months elder then he computeth. For although we begin the same from our nativity, and conceive that no arbitrary, but natural term of compute, yet for the duration of life or existence, we are liable in the Womb unto the usual distinctions of time; and are not to be exempted from the account of age and life, where we are subject to diseases, and often fuffer death. And therefore Pythagoras, Hippocrates, Diocles, Avicenna and others, have fet upon us numeral relations and temporal confiderations in the womb; not only affirming the birth of the feventh month to be vital, that of the eighth mortal, but the progression thereto to be measured by rule, and to hold a proportion unto motion and formation. As what receiveth motion in the feventh, to be perfected in the Triplicities; that is, the time of conformation unto motion is double, and that from motion unto the birth, treble; So what is formed the 35 day, is moved the seventy,

and born the 210 day. And therefore if any invisible causality there be, that after so many years doth evidence it self as Sixty three, it will be questionable whether its activity only set out at our nativity, and begin not rather in the womb, wherein we place the like considerations. Which doth not only entangle this affertion, but hath already embroiled the endeavours of Astrology in the erection of Schemes, and the judgment of death or diseases; for being not incontroulably determined, at what time to begin, whether at conception, animation or exclusion (it being indifferent unto the influence of Heaven to begin at either) they have invented another way, that is, to begin ab Hora questionia, as Haly, Messallach, Gani-

vetus, and Guido Bonatus have delivered.

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Again, In regard of the measure of time by months and years, there will be no small difficulty; and if we shall strictly consider it, many have been and still may be mistaken. For neither the motion of the Moon, whereby months are computed; nor of the Sun, whereby years are accounted, confifteth of whole numbers, but admits of fractions, and broken parts, as we have already declared concerning the Moon. That of the Sun confilteth of 365 daies, and almost 6 hours, that is, wanting eleven minutes; which 6 hours omitted, or not taken notice of, will in process of time largely deprave the compute; and this is the occasion of the Bissextile or leap-year, which was not observed in all times, nor punctually in all Common-Wealths; so that in Sixty three years there may be lost almost 18 daies, omitting the intercalation one day every fourth year, allowed for this quadrant, or 6 hours supernumerary. And though the same were observed, yet to speak strictly a man may be somewhat out in the account of his age at Sixty three, for although every fourth year we infert one day, and fo fetch up the quadrant, yet those eleven minutes whereby the year comes thort of perfect 6 hours, will in the circuit of those years arise unto certain hours; and in a larger progression of time unto certain daies. Whereof at present we find experience in the Calender we observe. For the Julian year of 365 daies being eleven minutes larger then the annual revolution of the Sun, there will arise an anticipation in the Æquinoxes; and as Junctinus, computeth, in every 136 year they will anticipate almost one day. And therefore those ancient men and Ne- comment. in ftors of old times, which yearly observed their nativities, might be spheram. Ich. miltaken in the day; nor that to be construed without a grain of de Sacro before Salt, which is delivered by Moses; At the end of four hundred years, even the felf same day, all the hoast of Israel went out of the land of Egypt. For in that space of time the Æquinoxes had anticipated, and the eleven minutes had amounted far above a day. And this compute rightly considered will fall fouler on them who call up

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the lives of Kingdoms, and fum up their duration by particular numbers; as Plato first began, and some have endeavoured fince by perfect and spherical numbers, by the square and cube of of 7 and o and 12, the great number of Plato. Wherein indeed Bodine hath attempted a particular enumeration; but (beside the mistakes committible in the folary compute of years) the difference of Chronology disturbs the fatisfaction and quiet of his computes; some adding, others detracting, and few punctually according in any one year; whereby indeed such accounts should be made up; for the variati-

on in an unite destroyes the total illation.

Thirdly, The compute may be unjust not only in a strict accept tion, of few daies or hours, but in the latitude also of some years; and this may happen from the different compute of years in divers Nations, and even such as did maintain the most probable way of account: their year being not only different from one another, but the civil and common account diffigreeth much from the natural year, whereon the confideration is founded. Thus from the tellimony of Herodottus, Cenforinus and others, the Greeks observed the Lunary year, that is, twelve revolutions of the Moon, 354 daies; but the Egyptians, and many others adhered unto the Solary account, that is, 365 daies, that is, eleven daies longer. Now hereby the account of the one would very much exceed the other : A man in the one would account himself 63, when one in the other would think bimself but 61; and so although their nativities were under the same hour, yet did they at different years believe the verity of that which both esteemed affixed and certain unto one. The like missike there is in a tradition of our daies; men conceiving a peculiar danger in the beginning daies of May, fet out as a fatal period unto confumptions and Chronical difeases; wherein notwithstanding we compute by Calenders, not only different from our ancestors, but one another; the compute of the one anticipating that of the other; to that while we are in April, others begin May, and the danger is past unto one, while it beginneth with another.

Fourthly, Men were not only out in the number of some daies, the latitude of a few years, but might be wide by whole Olympiades and divers Decades of years. For as Cenforinus relateth, the ancient Arcadians observed a year of three months, the Carians of The different fix, the Iberians of four; and as Diodorus and Xenophon de Aguivocis, alleadgeth, the ancient Egyptians have used a year of three, two, and one moneth: so that the Climacterical was not only different unto those Nations, but unreasonably distant from ours; for Sixty three will pass in their account, before they arrive so high as

ten in ours.

Now if we furvey the acount of Rome it lelf, may we doubt they

The Lunary year what-The Solary year what-

account or measure of a year.

they were mistaken; and if they feared Climacterical years, might err in their numeration. For the civil year whereof the people took notice, did sometimes come short, and sometimes exceed the natural. For according to Varro, Suetoninus and Cenforinus, their year consisted first of ten months; which comprehended but 304 daies, that is, or less then ours containeth; after by Numa or Tarquine from a superstitious conceit of imparity were added st daies, which made 355, one day more then twelve revolutions of the Moon. And thus a long time it continued, the civil compute exceedeth the natural; the correction whereof, and the due ordering of the Leap-year was referred unto the Pontifices; who either upon favour or malice, that fome might continue their offices a longer or shorter time; or from the magnitude of the year that men might be advantaged, or endamaged in their contracts, by arbitrary intercalations depraved the whole account. Of this abuse Cicero accused Verres, which at last proceeded so far, that when Julius Cafar came unto that office, before the redress hereof he was fain to infert to intercalary months unto November and December, when he had already inserted 23 daies unto February; so that the year consisted of 445 daies; a quarter of a year longer then that we observe; and though at the last the year was reformed, yet in the mean time they might be out wherein they summed up Climacterical observa-

Lastly, One way more there may be of mistake, and that not unusual among us, grounded upon a double compute of the year; the one beginning from the 23 of March, the other from the day of our birth, unto the same again which is the natural account. Now hereupon many men frequently miscast their daies; for in their age they deduce the account not from the day of their birth, but the year of our Lord, wherein they were born. So a man that was born in January 1582, if he live to fall sick in the latter end of March 1645, will sum up his age, and say I am now Sixty three, and in my Climacterical and dangerous year; for I was born in the year 1582, and now it is 1645, whereas indeed he wanteth many months of that year, considering the true and natural account unto his birth; and accounted two months for a year; and though the length of time and accumulation of years do render the mistake insensible; yet is it all one, as if one born in January 1644, should be accounted

All which perpended, it may be easily perceived with what insecurity of truth we adhere unto this opinion; ascribing not only effects depending on the natural period of time unto arbitrary calculations, and such as vary at pleasure; but confirming our tenets by the uncertain account of others and our selves. There being no

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positive or indesputable ground where to begin our compute; that if there were, men have been several waies mistaken; the best in some latitude, others in greater, according to the different compute of divers states, the short and irreconcilable years of some, t exceeding error in the natural frame of others, and the lapses and false

deductions of ordinary accountants in most

Which duly considered, together with a strict account and critical examen of reason, will also distract the witty determinations of Astrology. That Saturn the enemy of life, comes almost every seenth year, unto the quadrate or malevolent place; that as the Moon about every seventh day arriveth unto a contrary sign, so Saturn, which remaineth about as many years, as the Moon doth daies in one sign, and holdeth the same consideration in years as the Moon in daies; doth cause these periculous periods. Which together with other Planets, and prosection of the Horoscope, unto the seventh house, or opposite signs every seventh year; oppressent living natures, and causeth observable mutations, in the state of sublunary things.

Further satisfaction may yet be had from the learned discourse of Salmasius lately published, if any defire to be informed how different the present observations are from those of the ancients; how every one hath different Climactericals; with many other observables, im-

pugning the present opinion.

CHAP. XIII.

Of the Canicular or Dog-daies.

Hereof to speak distinctly: among the Southern constellations two there are which bear the name of the Dog: the one in 16 degrees of latitude, containing on the left thigh a Star of the first magnitude, usually called Procyon or Anticanis, because say some it riseth before the other; which if truly understood, must be restrained unto those habitations, who have elevation of pole above thirty two degrees. Mention thereof there is in Horace, who seems to mistake or consound the one with the other; and after him in Galen, who is willing, the remarkablest Star of the other should be called by this name; because it is the first that ariseth in the constellation; which notwithstanding, to speak strictly, it is not; unless we except one of the third magnitude in the right paw in his

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own and our elevation, and two more on his head in and beyond the degree of Sixty. A fecond and more confiderable one there is, and neighbour unto the other, in 40 degrees of latitude, containing 18 Stars, whereof that in his mouth of the first magnitude, the what the Greeks call Energy, the Latines canis major, and we emphatically the Dog-star is Dog-Star.

Now from the rifing of this Star, not cosmically, that is, with the Sun, but Heliacally, that is, its emersion from the raies of the Sun, the Ancients computed their canicular daies; concerning which there generally passet an opinion, that during those daies, all medication or use of Physick is to be declined; and the cure committed unto nature. And therefore as though there were any feriation in nature, or justitiums imaginable in professions, whose subject is natural, and under no intermissive, but constant way of mutation; this scason is commonly termed the Physicians vacation, and stands so received by most men. Which conceit however general, is not only erroneous, but unnatural, and substitting upon foundations either false, uncertain, mistaken or misapplied, deserves not of mankind that indubitable assent it findeth,

For first, which seems to be the ground of this affertion, and not to be drawn into question, that is, the magnified quality of this Star conceived to cause, or intend the heat of this season whereby these daies become more observable then the rest; We find that wifer Antiquity was not of this opinion. For, seventeen hundred years ago it was as a vulgur error rejected by Geminus, a learned Mathematician in his Elements of Astronomy; wherein he plainly affirmeth, that common opinion made that a cause, which was at first observed but as a sign. The rising and setting both of this Star and others being observed by the Ancients, to denote and testifie certain points of mutation, rather then conceived to induce or effeet the same. For our fore-fathers, saith he, observing the course of the Sun, and marking certain mutations to happen in his progress. through particular parts of the Zodiack, they registred and set them down in their Parapegmes, or Astronomical Canons; and being not able to delign these times by daies, months or years (the compute thereof, and the beginning of the year being different, according unto different Nations) they though best to settle a general account unto all; and to determine these alterations by some known and invariable figns; and fuch did they conceive the rifing and fetting of the fixed Stars; not ascribing thereto any part of causality, but notice and fignification. And thus much feems implied in that expreffion of Homer, when speaking of the Dog Star, he concludeth - Malum antem fignum eft; The fame as Petavins observeth, is implied in the word of Prolomy, and the Llz Ancients,

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Ancients, we interprete, that is, of the fignification of Stars. The term of Scripture also savours it, as that of sainb. Nolite timere a signis calis, and that in Genesis, ve sint in signa or tempora: Let there be lights in the sirmament, and let them be for signs and for sections.

The Primative and leading magnifiers of this Star, were the eggetians, the great admirers of Dogs in Earth and Heaven. Wherein they worshipped Anubis or Mercurius, the Scribe of Saturn, and Counseller of Osprus, the great inventor of their religious rites, and Promoter of good unto Egypt. Who was therefore translated into this Star; by the Egyptians called Sothis, and siris by the Ethiopiium; from whence that sirius or the Dog star had its name, is by some conjectured.

And this they looked upon, not with reference unto heat, but coelectial influence upon the faculties of man, in order to religion and all fagacious invention; and from hence derived the abundance and great fertility of Egypt, the overflow of Nylus happening about the afcent hereof. And therefore in hieroglyphical monuments, Ann. bis is described with a Dogs head, with a Crocodile between his legs, with a sphere in his hand, with two Stars, and a water Porstanding by him; implying thereby, the rising and setting of the Dog-star, and the inundation of the River Nylus.

But if all were filent, Galen hath explained this point unto the life; who expounding the reason why Hippocrates declared the affections of the year by the rifing and fetting of Stars; it was faith he, because he would proceed on figns and principles best know unto all Nations. And upon his words in the first of the Epidemicks, In Thaso Autummo circa Equinoxium & sub virgilias pluvia erant multa, he thus enlargeth. If (faith he) the same compute of times and months were observed by all Nation, Hippocrates had never made any mention either of Arcturus, Pleiades or the Dog-star; but would have plainly faid, in Macedonia, in the month Dion, thus or thus was the air disposed. But for as much as the month Dion is only known unto the Macedonians, but obscure unto the Athemians and other Nations, he found more general distinctions of time, and instead of naming months, would usually fay, at the Aquinox, the rifing of the Pleiades, or the Dog star. And by this way did the Ancients divide the seasons of the year, the Aurumn, Winter, Spring, and Summer. By the rifing of the Pleiades, denoting the beginning of Summer, and by that of the Dog-star, the declinatination thereof. By this way Aristotle through all his books of Animals, distinguishing their times of generation, latitancy, migration, fanity and venation. And this were an allowable way of compute, and still to be retained, were the fite of the Stars as inaltera-

How the Ancients divided the feafons of the year.

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ble, and their afcents as invariable as primative Astronomy conceived them. And therefore though Aristotle frequently mentioneth this Star, and particularly affirmeth that Fishes in the Bosphorus are best catched from the arise of the Dog-star, we must not conceive the fame a meer effect thereof. Nor though scaliger from hence be willing to infer the efficacy of this Star, are we induced hereto; except because the same Philosopher affirmeth; that Tunny is fat about the rifing of the Pleiades, and depart upon Arcturus, or that most insects are latent, from the setting of the 7 Stars; except, I say, he give us also leave to infer that these particular effects and alterations proceed from those Stars; which were indeed but designations of fuch quarters and portions of the year, wherein the same were observed. Now what Pliny affirmeth of the Orix, that it seemeth to adore this Star, and taketh notice thereof by voice and sternutation; until we be better assured of its verity, we shall not salve the sympathy. Secondly, What flender opinion the Ancients held of the efficacy

of this Star; is declarable from their compute. For as Geminus affirmeth, and Petavius his learned Commentator proveth, they began their account from its Heliacal emersion, and not its cosmical ascent The cosmical ascention of a Star we term that, when it ariseth to- What the Cosgether with the Sun, or the same degree of the Ecliptick wherein mical. the Sun abideth : and that the Heliacal, when a Star which before What the Hefor the vicinity of the Sun was not visible, being further removed, liscal afcent beginning to appear. For the annual motion of the Sun from West of Staris. to East being far swifter then that of the fixed Stars, he must of necessity leave them on the East while he hasteneth forward, and obfoureth others to the West: and so the Moon who performs its motion swifter then the Sun (as may be observed in their Conjunctions and Ecliples) gets Eastward out of his rajes 1 and appears when the Sun is fet. If therefore the Dog-star had this effectual hear which is afcribed unto it, it would afford best evidence thereof, and the feafon would be most fervent, when it arifeth in the probablest place of its activity, that is, the colinical ascent; for therein it arifeth with the Sun, and is included in the same isradiation. But the time observed by the Ancients was long after this ascent, and in the Heliacal emersion when it becomes nt greatest distance from the Sun, neither rifing, with it nor near it. And therefore had they conceived any more then a bare fignality in this Star, or ascribed the heat of the leafon, thereunto; they would not have computed from its Heliacal ascent, which was of inferious efficacy; nor imputed the vehemency of heat unto those points, wherein it was more remile, and where, with less probability, they might make out its action.

Thirdly, Although we derive the authority of these daies from observations of the Ancients, yet are our computes very different, and

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fuch as confirm not each other. For whereas they observed it Heliacally, we feem to observe it Cosmically; for before it arisety Heliacally unto our latitude, the Summer is even at an end. Again, we compute not only from different afcents, but also from divers Stars; they from the greater Dog-star, we from the lester; they from Orions we from Cephalus his Dog; they from Series, we from Procyon; for the beginning of the Dog-daies with us is fet down the 19 of July, about which time the leffer Dog-star ariseth with the Sun; whereas the Star of the greater Dog afcendeth not until after that month. And this militake will yet be larger, if the com-Bainb. Cenicu- pute be made ftricter, and as Dr. Bainbrigge late profestor of Aftronomy in Oxford, hath fet it down. Who in the year 1629 computed, that in the Horizon of Oxford, the Dog star arose not before the fifteenth day of August; when in our Almanack accounts, those daies are almost ended. So that the common and received time not answering the true compute, it frustrates the observations of our felves And being also different from the calculations of the Ancients, their observations confirm not ours, nor ours theirs, but rather confute each other.

Nor will the computes of the Ancients be fo Authentick unto those, who shall take notice, how commonly they applied the coleftist descriptions of other climes unto their own; wherein the learned Buinbrigins justly reprehendeth Manilius, who transferred the Egyptian descriptions unto the Roman account; confounding the

observation of the Greek and Barbarick Spheres.

Pourthly, (which is the Argument of Geminus) were there any fuch leffectual heat in this Star , yet could it but weakly evidence the fame in Summer; it being about 40 degrees distant from the Sun; and should rather manifest its warming power in the Winter, when it remains conjoyned with the Sun in its Hybernal convertion. For about the 19 of Ollober, and in the 18 of Scorpins and to again in Janu ry, the Sun performs his revolution in the same parallel with the Dog-star. Again, If we should impute the heat of this feafon, unto the co-operation of any Stars with the Sun, it feems more favourable for our times, to ascribe the same unto the constellation of Leo. Where besides that the Sun is in his proper house, it is conjoyned with many Stars; whereof two of the first magnitude; and in the 8th of August is corporally conjoyned with Bafilifem; a Star of eminent name in Astrology, and seated almost in the Ecliptick,

Fifthly, If all were granted, that observation and reason were also for it, and were it an undeniable truth, that an effectual fervour proceeded from this Star; yet would not the same determine the opini-29w in question; it necessarily suffering such restrictions as take off

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general illations. For first m regard of different lititudes, unto some the canicular daies are in the Winter; as unto such as have no latitude, but live in a right Sphere, that is, under the Equinoctial line; for unto them it ariseth when the Sun is about the Tropick of Cancer; which season unto them is Winter, and the Sun remotes from them. Nor hath the same position in the Summer, that is, in the Equinoctial points, any advantage from it; for in the one point the Sun is at the Meridian, before the Dog-star ariseth; in the other the Star is at the Meridian, before the sun ascendeth.

Some latitudes have no canicular daies at all; as namely all those What latiwhich have more then 73 degrees of Northern Elevation; as the tudes have no territory of Nova Zembla, part of Greenland and Tartary; for unto that habitation the Dog star is invisible, and appeareth not above

the Horizon.

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Unto such latitudes wherein it ariseth, it carrieth a various and very different respect; unto some it ascendeth when Summer is over, whether we compute Heliacally or Cosmically; for though unto Alexandria it ariseth in Cancer; yet it ariseth not unto Biarmia Cosmically before it be in Virgo, and Heliacally about the Autumnal Equinox. Even unto the latitude of 52, the efficacy thereof is not much considerable, whether we consider its ascent, Meridian, altitude or above the Horizon. For it ariseth very late in the year, about the eighteenth of Lea, that is, the 31 of July. Of Meridian Altitude it hath but 23 degrees, so that it plaies but oblickly upon us, and as the Sun doth about the 23 of January. And lastly, his abode above the Horizon is not great; for in the eighteenth of Lea, that 31 of July, although they arise together; yet doth it set above 5 hours before the Sun, that is, before two of the clock, after which time we are more sensible of heat, then all the day before.

Secondly, In regard of the variation of the longitude of the Stars, we are to consider (what the Ancients observed not) that the site of the fixed Stars is alterable and that since elder times they have suffered a large and considerable variation of their longitudes. The longitude of a Star, to speak plainly, is its distance from the first Whatchelong point of numeration toward the East; which first point unto the girde of a Ancients was the vernal equinos. Now by reason of their motion Star is from West to East, they have very much varied from this point: The first Star of Aries in the time of Meton the Athenian was placed in the very intersection, which is now elongated and removed Eastward 28 degrees; insomuch that now the sign of Aries possesses the place of Taurus, and Taurus that of Gemini. Which variation of longitude must very much distract the opinion of the Dog star; not only in our daies, but in times before and after; for since the World began it hath arisen in Taurus, and it the World last, may

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have its ascent in Virgo; so that we must place the canicular daies, that is, the hottest time of the year in the Spring in the first age. and in the Autumn in Ages to come.

What the declination of a Star is.

Thirdly, The Stars have not only varied their longitudes, whereby their ascents have altered; but have also changed their declinations, whereby their rifing at all, that is, their appearing hath varied. The declination of a Star we call its distance from the Equator. Now though the Poles of the world and the Equator be immovable, yet because the Stars in their proper motions from West to East, do move upon the poles of the Ecliptick, distant 23 degrees and an half fom the Poles of the Equator, and describe circles parallel not unto the Equator, but the Ecliptick; they must be there. fore sometimes nearer, sometimes removed further from the Equator. All Stars that have their distance from the Ecliptick North. ward not more then 23 degrees and an half (which is the greatest distance of the Ecliptick from the Equator) may in progression of time have declination Southward, and move beyond the Equator; but if any Star hath just this distance of 23 and an half (as hath Capella on the back of Ericthonius) it may hereafter move under the Equinoctial; and the same will happen respectively unto Stars which have declination Southward. And therefore many Stars may be visible in our Hemisphere, which are not so at present; and many which are at present, shall take leave of our Horizon, and appear unto Southern habitations. And therefore the time may come that the Dog star may not be visible in our Horizon, and the time hath been, when it hath not shewed it self unto our neighbour latitudes. So that canicular daies there have been none, nor shall be; yet certainly in all times some season of the year more notably hot then other.

we need not have recourse unto any Star but the Sun, and continuity of its action. For the Sun ascending into the Northern signs, begetting first a temperate heat in the air; which by his approach unto the folftice he intendeth; and by continuation increaseth the same even upon declination. For running over the same degrees again, Why the Dog- that is, Leo, which he hath done in Taurus, in July which he did daics be so hot in May; he augmenteth the heat in the latter which he began in the first; and easily intendeth the same by continuation which was well promoted before. So it is observed they which dwell between the Tropicks and the Equator, have their second summer hotter and more maturative of fruits then the former. So we observe in the day (which is a short year) the greatest heat about two in the afternoon, when the Sun is past the Meridian (which is his diurnal folitice) and the fame is evident from the Thermometer or observations

Lastly, We multiply causes in vain; and for the reason hereof,

tions of the weather-glass. So are the colds of the night sharper in the Summer about two or three after midnight, and the frosts in Winter stronger about those hours. So likewise in the year we observe the cold to augment, when the daies begin to increase, though the Sun be then ascensive, and returning from the Winter Tropick. And therefore if we rest not in this reason for the heat in the declining part of Summer, we must discover freezing Stars that may resolve the latter colds of Winter; which whoever desires to invent, let him study the Stars of Andromeda, or the nearer constellation of Pegasum, which are about that time ascendent.

It cannot therefore feem strange, or savour of singularity that we have examined this point. Since the same hath been already denied by some, since the authority and observations of the Ancients rightly understood, do not confirm it, since our present computes are different from those of the Ancients, whereon notwithstanding they depend; since there is reason against it, and if all were granted, yet must it be maintained with manifold restraints, far otherwise then is received. And lastly, since from plain and natural principles, the doubt may be fairly salved, and not clapt up from petitionary soun-

dations and principles established.

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But that which chiefly promoted the confideration of these daies, and medically advanced the same, was the doctrin of Hippocrates; a Phylitian of such repute, that he received a testimony from a Chriftian, that might have been given unto Christ. The first in his book, Quinec fallers de Aere, Aquis, & locis. Syderum ortus, &c. That is, we are to posest necfaki. observe the rising of Stars, especially the Dog star, Arcturus, and the setting of the Pleiades or seven Stars. From whence notwithflanding we cannot infer the general efficacy of thele Stars, or coefficacy particular in medications. Probably expressing no more hereby then if he should have plainly said, especial notice we are to take of the hottest time in Summer, of the beginning of Autumn and Winter; for by the rising and setting of those Stars were these times and feasons defined. And therefore subjoyns this reason, Quoniam his temporibus morbi finiuntur, because at these times diseases have their ends; Diseases comas Physitians well known, and he effewhere assimmeth, that scasons monly deterdetermine diseases, beginning in their contraries; as the spring the what seasons. diseases of Autumn, and the Summer those of Winter. Now (what is very remarkable) whereas in the same place he adviseth to observe the times of notable mutations, as the Equinoxes, and the Solftices, and to decline Medication ten daies before and after; how precifely foever canicular cautions be confidered, this is not observed by Phylitians, nor taken notice of by the people. And indeed should we blindly obey the restraints both of Physicians and Astrologers, we should contract the liberty of our prescriptions, and Mm confine

confine the utility of Pn, fick unto a very few daies. For observing the Dog daies, and as is expressed, some daies before, likewise ten daies before and after the Equinoctial and Solsticial points; by this observation alone are exempted an hundred daies. Where unto if we add the two Egyptian daies in every month, the interlunary and plenilunary exemptions, the Eclipsies of Sun and Moon, conjunctions and oppositions Planetical, the houses of Planets, and the site of the Luminaries under the signs (wherein some would induce a restraint of Purgation or Phlebotomy) there would arise above an hundred more; so that of the whole year the use of Physick would not be secure much above a quarter. Now as we do not strictly observe these daies, so need we not the other; and although consideration be made hereof, yet must we prefer the nearer indications before those which are drawn from the time of the year; or other calestial relations.

The second Testimony is taken out of the last piece of his Age, and after the experience (as some think) of no less then an hundred years, that is, his book of Aphorisms, or short and definitive determinations in Physick. The Aphorism alleadged is this, sub Came of ante Canem difficiles sunt purgationes. Sub Cane of Anticane, say some including both the Dog stars; but that cannot consist with the Greek: with a superior sup

stantial relations.

When Hippe-

And first, Concerning his time and Chronology: he liveed in the reign of of Artaxerxes Longimanus, about the c2 Olympiade, 450 years before Christ; and from our times above two thousand. Now since that time (as we have already declared) the Stars have varied their longitudes; and having made large progressions from West to East, the time of the Dog stars ascent must also very much alter. For it ariseth later now in the year, then it formerly did in the same latitude; and far later unto us who have a greater elevation; for in the daies of Hippocrates this Star ascended in Cancer, which now ariseth in Leo; and will in progression of time arise in Virgo. And therefore in regard of the time wherein he lived, the Aphorism was more considerable in his daies then in ours, and in times far past then present, and in this Countrey then ours.

The place of his nativity was Coos, an Island in the Myrtoan Sea, not far from Rhodes, described in Maps by the name of Lango, and called by the Turks who are Masters thereof, Stancora; according unto Ptolomy of Northern latitude 36 degrees. That he lived and writ in these parts, is not improbably collected from the

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Epiftles that passed betwixt him and Artaxerxes; as also between the Citizens of Abdera, and Coos, in the behalf of Democritus. Which place being seated from our latitude of 52, 16 degrees Southward, there will arise a different consideration; and we may much deceive our felves it we conform the ascent of Stars in one place unto another, or conceive they arise the same day of the month in Coos and in England. For as Petavius computes in the first Tulian year, at Alexandria of latitude 31, the Star arose cosmically in the twelfth degree of Cancer, Heliacally the 26, by the compute of Geminus about this time at Rhodes of latitude 37, it ascended cosmically the 16 of Cancer, Heliacally the first of Leo; and about that time at Rome of latitude 42, cosmically the 22 of Cancer, and Heliacally the first of Leo. For unto places of greater latitude it ariseth ever later; so that in some latitudes the cosmical ascent happeneth not before the twentieth degree of Virgo, ten daies before the Autumnal Equinox, and if they compute Heliacally, after it, in Libra.

Again, Should we allow all, and only compute unto the latitude of Coos; yet would it not impose a total omission of Physick. For if in the hottest season of that clime, all Physick were to be declined, then furely in many other none were to be used at any time whatfoever; for unto many parts, not only in the Spring and Autumn. but also in the Winter, the Sun is nearer, then unto the clime of Coos in the Summer.

The third confideration concerneth purging medicines, which are at present far different from those implied in this A phorism, and such Three degrees as were commonly used by Hippocrates. For three degrees we make of purgations of purgative medicines: The first thereof is very benign, nor far removed from the nature of Aliment, into which, upon defect of working, it is oft-times converted; and in this form do we account Manna, Cassia, Tamarindes, and many more; whereof we find no mention in Hippocrates. The second is also gentle having a familiarity with some humor, into which it is but converted if it fail of its operation: of this fore are Alee, Rhabarb, Senna, &c. Whereof also few or none were known unto Hippocrates. The third is of a violent and venemous quality, which frustrate of its action, assumes as it were the nature of poison; such as are Scammoneum, Colocynthis, Elaterium, Euphorbium, Tithymallus, Laureola, Peplum, &c. Of this fort Hippocrates made use, even in Fevers, Pleurisies and Quinfies; and that composition is very remarkable which is ascribed unto Diogenes in Lins; that is of Pepper, Sal, Armoniac, Euphorbium, of each an ounce, the Doss whereof four scraples Terrab. 110. 1. and an half; which whatfoever should take, would find in his bowels more then a canicular heat, though in the depth of Winter, ma-

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ny of the like nature may be observed in Line, or in the book De Dinamidis, ascribed unto Galen, which is the same verbaim with the other.

Now in regard of the second, and especially the first degree of Purgatives, the Aphorism is not of force; but we may safely use them, they being benign and of innoxious qualities. And therefore Lucas Gauricus, who hath endeavoured with many testimonies to advance this confideration, at length concedeth that lenitive Phyfick may be used, especially when the Moon is well affected in Cancer or in the watery figns. But in regard of the third degree the Aphorism-is considerable: purgitions may be dangerous; and a me. morable example there is in the medical Epistles of Crucius, of 4 Roman Prince that died upon an ounce of Diap' anicon, taken in this feason. From the use whereof we refrain not only in hot sea sons, but warily ex ibit it at all times in hot diseases. Which when necessity requires, we can perform more safely then the Ancients, as having better waies of preparation and correction; that is, not onby addition of other bodies, but separation of noxious parts from their own.

But befile these differences between Hippocrates and us, the Pay. fitians of these times and those of Antiquity; the condition of the disease, and the intention of the Physician, hold a main consideration in what time and place foevers. For Physick is either curative or preventive; Preventive we call that which by purging noxious humors, and the causes of diseases, preventeth sickness in the healthy, or the recourse thereof in the valetudinary; this is of common use at the spring and fall, and we commend not the same at this scalon. Therapeutick or curative Phylick, we term that, which restoreth the Patient unto Sanity, and taketh away diseases actually affecting. Now of difeases some are cronical and of long duration, as quartane Agues, Scurvy, &c. Wherein because they admit of delay, we defer the cure to more advantagious feafons; Others we term acute, that is, of thort duration and danger, as Fevers, Pleurifies, oc. In which, because delay is dangerous, and they arise unto their state before the Dog-daies determine; we apply present remedies according unto Indications; respecting rather the acuteness of the discase, and precipitancy of occasion, then the rising or setting of Stars; the effects of the one being disputable, of the other affured and inevitable.

Difcales Chronical and Acute what they be.

Strong purga. tions not fo well given in the hear of W. 15.

And although Aftrology may here per in, and plead the kettet influence of this Star : yet Galen in his Comment, makes no luch confideration; confirming the truth of the Aphorism from the fummer, and heat of the year; and the operation of Medicines exhibited. Ingegard that bodies being heated by the Summer, cannot fo well endure ook

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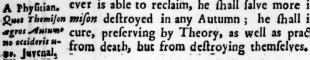
the acrimony of purging Medicines; and because upon purgations contrary motions enfue, the heat of the air attracting the humours outward, and the action of the Medicine retracting the fame inward. But these are readily salved in the distinctions before allead. ged; and particularly in the constitution of our climate and divers; others, wherein the air makes no fuch exhaustation of spirits. And in the benignity of our Medicines; whereof some in their own natures, others well prepared, agitate not the humors, or make fenfible perturbation.

Nor do we hereby reject or condemn a fober and regulated Aftrology; we hold there is more truth therein then in Aftrologers; in in some more then many allow, yet in none so much as some pretend. We deny not the influence of the Stars, but often suspect the due application thereof; for though we should affirm that all things were in all things; that heaven were but earth celestified, A Problem, and earth but heaven terrestrified, or that each part above had an influence upon its, divided affinity below; yet how to fingle out thefe relations, and duly to apply their actions is a work oft times to be effected by some revelation, and Cabala from above, rather then any Philosophy, or speculation here below. What power soever they have upon our bodies, it is not requifite they should destroy our reasons, that is, to make us rely on the strength of Nature, when the is least able to relieve us; and when we conceive the heaven a. gainst us, to result the affiltance of the earth created for us. This were to suffer from the mouth of the Dog above, what others do from the teeth of Dogs below; that is, to be afraid of their pro- Upon the biper remedy, and refuse to approach any water, though that hath ting, of a mad often proved a cure unto their disease. There is in wise men a Dog there en-power beyond the Stars; and Ptolonia encourageth us, that by fore-phobia or search knowledge, we may evade their actions; for, being but universal of water causes, they are determined by particular agents; which being inclined, not constrained, contain within themselves the casting act, and a power to command the conclusion.

Laftly, If all be conceded, and were there in this Aphorifin an unrestrained truth, yet were it not reasonable from a caution to inferr a non usance or abolition, from a thing to be used with difcretion, not to be used at all. Because the Apostle bids us beware of Philotophy, heads of extremity will have none at all; an usual fallacy in vulgar and less distinctive brains, who having once overfhot the mean, run violently on, and find no rest but in the extreams.

terial, and concerns oft-times the life of man; an error to be taken notice of by State, and provided against by Princes, who are of the opinion of Solomon, that their riches consists in the multitude of their subjects. An error worse then some reputed Heresies; and of greater danger to the body, then they unto the foul; which whofoever is able to reclaim, he shall salve more in one summer then The-Ques Themison mison destroyed in any Autumn; he shall introduce a new way of agros Anium cure, preserving by Theory, as well as practice, and men not only

Now hereon we have the longer infifted, because the error is ma-





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Of many things questionable as they are commonly described in Pictures.

CHAP. I.

Of the Picture of the Pelecan.



Nd first in every place we meet with the picture of the Pelecan, opening her breast with her bill, and feeding her young ones with the blood distilling from her. Thus is it set forth not only in common Signs, but in the Crest and Schucheon of many Noble families; hath been asserted by many holy Writers, and was an Hierogliphick of piety and pitty among the Agyptians; on which consideration, they spared them at their

tables.

Notwithstanding upon enquiry we find no mention hereof in Ancient Zodicgraphers, and such as have particularly discoursed upon Animals, as Aristotle, Elian, Pliny, Solinan and many more; who seldom forget proprieties of such a nature, and have been very punctual inteles considerable Records. Some ground hereof I confess we may allow, nor need we dony a remarkable affection in Pelceans toward their young; for Elian discourance of Storks, and their affection toward their brood, whom they instruct

to fly, and unto whom they re-deliver up the provision of their Bellies,

concludeth at laft, that Herons and Pelecans do the like.

As for the testimonics of Ancient Fathers, and Ecclesiastical Write s, we may more safely conceive therein some Emblematical than any real sory: so doth Encherius consess it to be the Emblem of Christ. And we are unwilling literally to receive that account of Ferom, that perceiving her young ones destroyed by Serpents, she openeth her side with her bill, by the blood whereof they revive and return unto life again. By which relation they might indeed illustrate the destruction of man by the old Serpent, and his restorement by the blood of Christ: and in this sense weshall not dispute the like relations of Anstine, Isidore, Albertus, and many more, and under an Emblematical intention, we accept it in coat-armour.

As for the Hisroglyphick of the Egyptians, they erected the same upon another consideration, which was parental affection; manifested in the protection of her young ones, when her nest was set on fire. For as for letting out her blood, it was not the affertion of the Egyptians, but seems translated unto the Pelecan from the Vulture, as Pierius hath plainly delivered. Sed anod Pelicanum (ut etiam aliis plerisque persuasum est) rostro pettus dissecuntem pingunt, it aut suo sanguine silios alat, ab Agyptiorum bistorii valde alienum est, illi enim vulturem tantum id factre

And lastly, as concerning the picture, if naturally examined, and not Hierogliphically conceived, it containeth many improprieties, disagreeing almost in all things from the true and proper description. For, whereas it

tradiderunt.

is commonly fet forth green or yellow, in its proper colour, it is inclining to white; excepting the extremities or tops of the wing feathers, which are brown. It is described in the bigness of a Hen, whereas it approacheth and sometimes exceedeth the magnitude of a Swan. It is conmonly painted with a short bill; whereas that of the Pelecan attaineth fometimes the length of two spans. The bill is made acute or pointed at the end; whereas it is flat and broad, though somewhat inverted at the extream. It is described like fistipedes, or birds which have their feet or claws divided; whereas it is palmipedous, or fin-footed like Swans and Geele; according to the method of nature, in latirostrous or flat-bild birds; which being generally swimmers, the organ is wisely contrived unto the action, and they are framed with fins or oars upon their feet; and therefore they neither light, nor build on trees, if we except Cormorants, who make their nests like Herons. Lastly, there is one part omitted more remarkable than any other, that is, the chowle or crop adhering unto the lower fide of the bill, and fo descending by the throat : a bag of

fachel very observable, and of a capacity almost beyond credit; which notwithstanding, this animal could not want; for therein it receivesh O, sters, Cochels, Scollops, and other testaceous animals; which being not able to break, it retains them until they open, and vomiting them up, takes out the meat contained. This is that part preserved for a rarity

The bignels of a Pelecan,

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and wherein (as Sanctives delivers) in one diffected, a Negro child was found.

A possibility there may be of opening and bleeding their breast; for this may be done by the uncous and pointed extremity of their bill: and some probability also that they sometimes do it, for their own relief, though not for their young ones; that is by nibling and biting themselves on their itching part of their breast, upon fullness or acrimony of blood. And the same may be better made out; if (as some relate) their feathers on that part are sometimes observed to be red and tineted with blood.

CHAP. II.

Of the Picture of Dolphins.

Hat Dolphins are crooked, is not only affirmed by the hand of the Painter, but commonly conceived their natural and proper figure; which is not only the opinion of our times, but feems the belief of elder times before us. For, befide the expressions of Ovid and Pliny, their Pourtraids in some ancient Coyns are framed in this figure, as will appear in some theteof in Gesner, others in Goltsius, and Lavinus Hulsius in his discription of Coyns, from Julius Casar unto Rhodulphus the second.

Notwishstanding, to speak strictly in their natural figure they are streight, nor have their spine convexed, or more considerably embowed, than Sharks, Porposes, Whales, and other Cetaceous animals, as Scaliger plainly affirmeth: Corpus habet non magis curvum quamreliqui pisces. As ocular enquiry informeth; and as unto such as have not had the opportunity to behold them, their proper pourtraicts will discover in Rondeletius, Gesner, and Aldrovandus. And as indeed is deducible from pictures themselves; for though they be drawn repandous, or convexedly crooked in one piece, yet the Dolphin that carrieth Arion is concavously inverted, and hath its spine deptessed in another. And answerably hereto may we behold them differently bowed in medalls, and the Dolphins of Tarus and Fulius do make another stever from that of Commodus and Agrippa.

And therefore what is delivered of their incurvity, must either be taken Emphatically, that is, not really but in appearance; which happeneth, when they leap above water, and suddenly shoot down again; which is a saliacy in vision, whereby straight bodies in a sudden motion protruded obliquely downward, appear unto the eye crooked; and this is the construction of Bellopius. Or if it be taken really, it must not universally and perpetually; that is, not when they swim and remain in their proper sigures, but only when they leap, or impetuously whirl their bodies any way;

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and this is the opinion of Gefnerus. Or lastly, It may be taken neither really nor emphatically, but only Emblematically: for being the Hierogly-phick of celerity, and swifter than other animals, men best expressed their velocity by incurvity, and under some figure of a bow: and in this sense probably do Heralds also receive it, when from a Dolphin extended, they distinguish a Dolphin embowed.

And thus also must that picture be taken of a Dolphin clasping an Anchor that is, not really, as is by most conceived out of affection unto man, conveighing the Anchor unto the ground: but emblematically, according as Pierius hath expressed it, The swiftest animal conjoyned with that heavy body, implying that common moral, Festina lente; and that celerity should

always be contempered with cunctation.

CHAP. III.

Of the Picture of a Grashopper.

Here is also among us a common description and picture of a Grasshopper, as may be observed in the pictures of Emblematists, in the coats of several families, and as the word Cicada is usually translated in Dictionaries. Wherein to speak strictly, if by this word Grasshopper, we understand that animal which is implied by mink with the Greeks, and by Cicada with the Latines; we may with safety affirm the picture is widely mistaken, and that for ought enquiry can inform, there is no such insection England. Which how paradoxical soever, upon a strict enquiry, will

prove undeniable truth.

For first, That animal which the French term Santerelle, we a Grashopper, and which under this name is commonly described by us, is named "Anpis by the Greeks, by the Latines Locusta, and by our selves in proper speech a Locust; as in the diet of John Baptist, and in our Translation, the Locusts have no King, yet go they forth all of them by bands. Again, Between the Cicada and that we call a Grashopper, the differences are very many, as may be observed in themselves, or their descriptions in Matthiolus, Aldrovandus and Musseus. For first, They are differently cucullated or capuched upon the head and back, and in the Cicada the eyes are more prominent: the Locusts have Antenna or long horns before, with a long falcation or forcipated tail behind; and being ordained for saltation, their hinder legs do far exceed the other. The Locust or our Grashopper hath teeth, the Cicada none at all; nor any mouth according unto Aristotle: the Cicada is most upon trees; and lastly, the stitinnitus or proper mote thereof, is far more shrift than that of the Locust; and its life so short

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in Summer, that for provision it needs not have recourse unto the providence of the Pismire in Winter.

And therefore where the Cicada must be understood, the pictures of Heralds and Emblematists are not exact, nor is it safe to adhere unto the interpretation of Dictionaries; and we must with candour make out our own Translations: for in the Plague of Egypt, Exodus 10. The word Axess is translated a Locust, but in the same sense and subject, Wisdom 16. It is translated a Grashopper; For them the bitings of Grashoppers and slies killed: whereas we have declared before, the Cicada hath no teeth, but is conceived to live upon dew; and the possibility of its subsistence is disputed by Licetus. Hereof I perceive Musseums hath taken notice, dissenting from Langius and Lycostenes, while they deliver, the Cicada's destroyed the fruits in Germany, where that insect is not found; and therefore concludeth, Tam ipsos quam alios deceptos fuisse autumo, dum locustas cicadas ese vulgari errore crederent.

And hereby there may be some mistake in the due dispensation of Medicines desumed from this animal; particularly of Diatettigon commended by Letius in the affections of the kidnies. It must be likewise understood with some restriction what hath been affirmed by Islave, and yet delivered by many, that Cicades are bred out of Cuccow spittle or Woodsear; that is, that spumous, frothy dew or exudation, or both, sound upon Plants, especially about the joints of Lavinder and Rosemary, observable with us about the latter end of May. For here the true Cicada is not bred, but certain it is, that out of this, some kind of Locust doth proceed; for herein may be discovered a little insect of a session or pale green, resembling in

all parts a Locust, or what we call a Grashopper.

Lastly, The word it self is improper, and the term of Grashopper not appliable unto the *Gicada*; for therein the organs of motion are not contrived for saltation, nor are the hinder legs of such extension, as is observable in salient animals, and such as move by leaping. Whereto the Locust is very well conformed; for therein the legs behind are longer than all the body, and make at the second joy nt acute angles, at a considerable advance-

ment above their backs.

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The mistake therefore with us might have its original from a desect in our language; for having not the insect with us, we have not fallen upon its proper name, and so make use of a term common unto it and the Locust; whereas other countries have proper expressions for it. So the Italian calls it Cicada, the Spaniard Cigarra, and the French Cigale; all which appellations conform unto the original, and properly express this animal. Whereas our word is borrowed from the Saxon Gaisthopp, which our foresathers, who never beheld the Cigada, used for that insect which we yet call a Grashopper.

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CHAP. IV.

Of the Picture of the Serpent tempting Eve.

In the Picture of Paradife, and delusion of our first Parents, the Serpent is often deteribed with humane visage; not unlike unto Cadmus or his wife, in the act of their Metamorphosis. Which is not a meer pictorial contrivance or invention of the Picturer, but an ancient tradition and concived reality, as it stands delivered by Beda and Authors of some antiquity; that is, that Sathan appeared not unto Eve in the naked form of a Serpent, but with a Virgins head, that thereby he might become more acceptable, and his temptation find the casier entertainment. Which nevertheless is a conceit not to be admitted, and the plain and received figure, is with better reason embraced.

For first, as Pierius observeth from Barcephas, the assumption of humane shape had p oved a disadvantage unto Sathan; affording not only a suspicious amazement in Eve, before the fact, in beholding a third humanity beside herself and Adam; but leaving some excuse unto the woman, which afterward the man took up with lesser reason; that is, to have been decei-

ved by another like her felf.

Again, There was no inconvenience in the shape assumed, or any confiderable impediment that might d flurb that performance in the common form of a Serpent. For whereas it is conceived the woman must needs be afraid thereof, and rather flie than approach it; it was not agrecable unto the condition of Paradife and flate of innocency therein; if in that place as most determine, no creature was hurtful or terrible unto man, and those destructive effects they now discover succeeded the curse, and came in with thorns and briars. And therefore Engubines (who affirmeth this Serpent was a Bafilisk) incurreth no absurdity, nor need we infer that Eve should be destroyed immediately upon that Vision. For noxious animals could offend them no more in the Garden, than Noah in the Ark : as they peaceably received their names, fo they friendly possessed their names; and were their conditions destructive unto each other, they were not fo unto man, whose conflitutions then were antidotes, and needed not fear pole And if (as most conceive) there were but two created of every kind, they could not at that time destroy either man or themselves; for this had fruftrated the command of multiplication, destroyed a species, and imperfected the Creation, And therefore alfo if Cain were the fult man born, with him entred not only the act, but the first power of murther; for before that time neither could the Serpent nor Adam deftroy Twe, nor Adam and Eve each other; for that had overthrown the intention of the world, and put its Creator to ect the fixt day over again.

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Moreover, Whereas in regard of speech, and vocas conscrence with Eve, it may be thought he would rather affume an humane shape and organs, then the improper form of a Serpent ; it implies no material impediment. Nor need we to wonder how he contrived a voice out of the mouth of a Serpent, who hath done the like out of the belly of a Pythonista, and the trunk of an Oak; as he did for many years at Dodona.

Laftly, Whereas it might be conceived that an humane shape was fitter for this enterprise; it being more than probable the would be amazed to Why Eve hear a Serpent speak; some conceive the might not yet be certain that wondered not only man was priviledged with speech; and being in the novity of the attheserpents Creation, and in experience of all things, might not be affrighted to hear speaking. a Serpent Speak. Beside she might be ignorant of their natures, who was not versed in their names, as being not present at the general survey of Animals, when Adam affigned unto every one a name concordant unto its nature. Nor is this my opinion, but the determination of Lombard and Toffatus; and also the reply of Cyrill unto the objection of Julian . who compared this flory unto the fables of the Greeks.

CHAP. V.

of the Picture of Adam and Eve with Navels.

Nother mistake there may be in the Picture of our first Parents, who . after the manner of their posterity are both delineated with a Navel. And this is observable not only in ordinary and stained pieces, but in the Authentick draughts of Urbin Angelo and others. Which notwithlianding cannot be allowed, except we impute that unto the first cause, which we impose not on the second; or what we deny unto nature, we impute unto Naturity it felf; that is, that in the first and most accomplished piece, the Creator affected superfluities, or ordained paris without use or office.

For the use of the Navel is to continue the Infant unto the Mother, and Whatthe Na by the yelfels thereof to convey its aliment and fultentation. The yelfels yel is, and for: whereof it confifteth, are the umbilical vein, which is a branch of the what use. Porta, and implanted in the Liver of the Infant; two Arteries likewife arising from the Iliacal branches, by which the Infant receiveth the purer portion of blood and spirits from the mother; and lastly, the Uraches or ligamental passage derived from the bottom of the bladder, whereby it dischargeth the waterish and urinary part of its aliment. Now upon the birth, when the Infant forfaketh the womb, although it dilacerate, and breakithe involving membranes, yet do these vessels hold, and by the mediation thereof the Infant is connected unto the womb, not only before

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That Adam and Eve had not Nayels. but a while also after the birts. These therefore the midwise cutteth off, contriving them into a knot close unto the body of the Infant; from whence ensuch that tortuosity or complicated modosity we usually call the Navel; occasioned by the colligation of vessels before mentioned. Now the Navel being a part, not precedent, but subsequent unto generation, nativity or partirition, it cannot be well imagined at the creation or extraordinary formation of Adam, who immediately issued from the Artisice of God; nor also that of Eve; who was not solemnly begotten, but suddenly

framed, and anomalously proceeded from Adam.

And if we be led into conclusions that Adam had also this part, because we behold the same in our selves, the inference is not reasonable; for if we conceive the way of his formation, or of the first animals, did carry in all points a ftrict conformity unto fucceeding productions, we might fall into imaginations that Adam was made without Teeth; or that he ran through those notable alterations in the vessels of the heart, which the Infant suffereth after birth : we need not dispute whether the egg or bird were first; and might conceive that Dogs were created blind, because we observe they are litered so with us. Which to affirm, is to confound, at least to regulate creation unto generation, the first Acts of God, unto the second of Nature; which were determined in that general indulgence, Encrease and Multiply, produce or propagate each other; that is, not anfwerably in all points, but in a prolonged method according to feminal For the formation of things at first was different from their generation after; and although it had nothing to precede it, was aptly contrived for that which should succeed it. And therefore though Adam were framed without this part, as having no other womb than that of his proper principles, yet was not his posterity without the same : for the feminality of hisfabrick contained the power thereof; and was endued with the science of those parts whose predestinations upon succession it did accomplish.

All the Navel therefore and conjunctive part we can suppose in Adam, was his dependency on his Maker, and the connexion he must needs have unto heaven, who was the Son of God. For holding no dependence on any preceding efficient but God; in the 2ct of his production there may be conceived some connexion, and Adam to have been in a momental Navel with his Maker. And although from his carnality and corporal existence, the conjunction seemeth no nearer than of causality and effect; yet in his immortal and diviner part he seemed to hold a nearer coherence, and an umbilicality even with God himself. And so indeed although the propriety of this part be sound but in some animals, and many species there are which have no Navel at all; yet is there one link and common connection, one general ligament, and necessary obligation of all what ever unto God. Whereby although they act themselves at distance, and seem to be at loose; yet do they hold a continuity with their Maker. Which catenation or conserving union when ever his pleasure shall divide, let go,

or feparate; they thall fall from their exittence, effence, and operations : in brief, they must retire unto their primative nothing, and shrink into

their Chaos again.

They who hold the egg was before the Bird, prevent this doubt in many other animals, which also extendeth unto them : For birds are nourished by umbilical vessels, and the Navel is manifest sometimes a day or two after exclusion. The same is probable in oviparous exclusions, if the leffer part of eggs must ferve for the formation, the greater part for nutriment. same is made out in the eggs of Snakes; and is not improbable in the generation of Porwiggles or Tadpoles, and may be also true in some vermiparous exclusions; although (as we have observed in the daily progress in some) the whole Maggot is little enough to make a Fly, without any part remaining.

CHAP. VI.

of the Pictures of Eastern Nations, and the Jews at their Feasts. especially our Saviour at the Passover.

Oncerning the Pictures of the Jews, and Eastern Nations at their Feafts, concerning the gesture of our Saviour at the Passoyer, who is usually described sitting upon a stool or bench at a square table, in the middest of the twelve, many make great doubt; and (though they concede

a table-gesture) will hardly allow this usual way of Sestion.

Wherein restraining no mans enquiry, it will appear that accubation, or lying down at meals was a gestare used by very many Nations. That the Persians used it, beside the testimony of humane Writers, is deducible from that paffage in Efther. That when the King returned into the place Efther 7: of the banquet of wine, Haman was fallen upon the bed whereon Efther was. That the Parthians used it, is evident from Athenaus, who delivereth out of Posidonine, that their King lay down at meals, on an higher bed than others. That Cleopatra thus entertained Anthony, the same Author manifesteth when he saith, she prepared twelve Trickiniums, That it was in use among the Greeks, the word Triclinium implieth, and the same is also declarable from many places in the Symposiacks of Plutarch. That it was not out of fashion in the days of Aristotle, he declareth in his politicks; when among the Institutionary rules of youth, he adviseth they might not be permitted to hear lambicks and Tragedies before they were admitted unto discumbency or lying along with others at their meals. That the Romans used this gesture at repast, beside many more, is evident from

Lipins

Lippus, Mercarialis, Satmafins and Ciaconius, who have exprefly anddi-

functly treated hereof.

Now of their accumbing placer, the one was called Scibadion and Sigma, carrying the figure of an half Moon, and of an uncertain capacity, whereupon it isceived he name of Hexaclinon, Octociinen, according unto that o: Martial,

Accipe Lunata scriptum testudine Sigma: Octo capit, veniat quisquis amicus etit.

Hereat in several ages the left and right horn were the principal places. rnd the most honorable person, if he were net master of the feast, possessed one of those rooms. The other was termed Triclinium, that is, Three beds about a table, as may be feen in the figures thereof, and particularly in the Rhamnufian Triclinium, fer down by Mercurialis. The customary Merc De Arte use hereof was probably deduced from the frequent use of bathing, after which they commonly retired to bed, and refected themselves with repalls and so that custom by degrees changed their cubicularly beds into discubitery, and introduced a fashion to go from the bathes unto these.

The ancient gefture or poition of the body at feafts.

Gymnastica.

As for their gesture or position, the men lay down leaning on their lest elbow, their back being advanced by some pillow or some substance: the second lay so with his back towards the first, that his head attained about his bosome; and the rest in the same order. For women, they fat some. rimes distinctly with their fex, sometime promiseuously with men, according to affection or favour, as is delivered by Javenal,

Gremio jacuit nova nupta mariti.

And by Suctonism of Caligula, that at his fealts he placed his fifters with

whom he had been incontinent, successively in order below him.

Again, As their beds were three, so the guests did not usually exceed that number in every one; according to the ancient Laws, and proverbial observations to begin with the Graces, and make up their feasts with the Muses. And therefore it was remarkable in the Emperour Lucius Verus, that he lay down with twelve : which was, faith Julius Capitolinus, prater exempla majorum, not according to the custom of his Predecessors, except it were at publick and nuptial suppers. The regular number was also exceeded in this last supper, whereat there were no less than thirteen, and in no place fewer than ten, for, as Tofephus delivereth, it was not lawful to celebrate the Paffover with fewer than that number.

Lastly, For the disposing and ordering of the persons: The first and middle beds were for the guests, the third and lowest for the Master of the house and his family; he always lying in the first place of the last bid, that is, next the middle bed; but if the wife or children were absent, their rooms were supplied by the Umbræ, or hangers on, according to that of Juvenal-Locus eft & pluribus Umbris. For the guists, the hone u ablest pl ce in every bed was the first, excepting the middle or second bed; wherein the most honourable Guest of the feast was placed in the last place, because by that position he might be next the Master of the

Who the Um. bræ were at banguets.

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feaft, For the Mafter lying in the first of the last bed, and the principal Iul. Scalig fa-Gueft in the last place of the second, they must needs be next each other ; miliarium exsethis figure doth plainly declare, and whereby we may apprehend the Problema to feast of Perpenna made unco Sertorius, described by Salustius, whose words we shall thus read with Salmasius : Igitur discubuere, Sertorius inferior in medio letto, Supra Fabins; Antonius in Summo; Infra Scriba Sertorii Versius ; alter scriba Macenas in Imo, medius inter Tarquitium & Dominum Perpennam.

	ouo H	mmislo militar anfal	ะพาไ	n Me	sneuen s	dns	
				Medius Locus			
Sen Domini Supra	Perpenna Dominus			7		Verfins	Ultimus Infra
ime Meding	Mecenas Imus Letius					Locus Vacuus Summus Lelius	Medius
Ultima	Tarquitim					Antonius	Primus Locus Seu Summus Supra

At this feast there were but seven; the middle places of the highest and middle bed being vacant; and hereat was Sertorius the General and principal guest slain. And so may we make our what is delivered by Plutarch in his life, that lying on his back, and raising himself up, Perpenna cast himself upon his stomack; which he might very well do, being Master of the feaft, and lying next unto him. And thus also from this Tricliniary disposure, we may illustrate that obscure expression of Seneca; That the Northwind was in the middle, the North-East on the higher side, and the North-West on the lower. For as appeareth in the circle of the winds, the North-East will answer the bed of Antonius, and the North-West that of Perpenna.

That the custom of scassing upon beds was in use among the Hebrews,

Ezek 23.

many deduce from Ezekiel. Thou farteft upon a ftately bed, and a table prepared before it. The custom of Discalceation or putting off their thos at meals, is conceived to confirm the fame; as by that means keeping their beds clean; and therefore they had a peculiar charge to ear the Paffoyer with their shooes on; which Injunction were needless, if they used not to pur them off. However it were in times of high antiquity, probable it is that in after ages they conformed unto the fashions of the Astrians and Eastern Nations, and lastly of the Romans, being reduced by Pompey unto

a Provincial Subjection.

That this discumbency at meals was in use in the days of our Saviour? is conceived probable from several speeches of his expressed in that phrase, even unto common Auditors, as Luke 14. Cum invitatus fueris ad un. tias, non discumbas in primo loco, and besides many more, Matthew 27, When reprehending the Scribes and Pharifes, he faith, Amant protocli. fias, id eft, primos recubitue in canie, & protocathedrias, five, primata. thedras, in Synagogis: wherein the terms are very diffinct, and by an Antithefis do plainly distinguish the posture of sitting, from this of lying The confent of the Tems with the Romans in other ceremonies and rites of feasting, makes probable their conformity in this, The Remans washed, were anointed, and wore a cenatory garment: and that the same was practised by the Fews, is deduceable from that expostulation of our Sayiour with Simon, that he washed not his feet, nor anointed his head with oyl; the common civilities at festival entertainments; and that expression of his concerning the cenatory or wedding garment; and as some conceive of the linnen garment of the young man or St. John; which might be the same he wore the night before at the lest

Buke 7.

Maish, 22.

Exed, 13.

That they used this gesture at the Passoyer, is more than probable from the testimony of Tewish Writers, and particularly of Ben-maimon recorded by Scaliger De emendatione temporum, After the second cup according to the Institution. The Son asketh, what meaneth this service? Then he that maketh the declaration, faith, How different is this night from all other nights? for all other nights we wash but once but this night twice; all other we eat leavened or unleavened bread, but this only leavened; all other we eat flesh roatted, boyled or baked, by this only roasted, all other nights we eat together lying of fitting, but this only lying along. And this posture they used as a token of rest and security which they enjoyed, far different fromthat, at the eating of the Paffover in Egypt.

That this gesture was used when our Saviour eat the Passeover, is not conceived improbable from the words whereby the Evangelists express the fame, that is, anaululus, ameria, nomuna, anandefring, which terms do properly fignifie, this Gesture in Aristotle, Athenam, Euripides, Sopheales, and all humane Authors; and the like we meet with in the paraphra-

Rical expression of Nonnus.

Laftly, If it be not fully conceded, that this gesture was used at the Pass-

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over, yet that it was observed at the last supper, seems almost incontroverrible: for at this feast or cenatory convention, learned men make more than one supper, or at least many parts thereof. The first was that Legal one of the Passover, or eating of the Paschal Lamb with bitter herbs, and ceremonies described by Moses. Of this it is said, then when the even Matth. 26 was come he fat down with the twelve. This is supposed when it is said, John 13. that the supper being ended, our Saviour arose, took a towel and washed the disciples feet. The second was common and Domestical, confisting of ordinary and undefined provisions; of this it may be faid, that our Saviour took his garment, and fat down again, after he had washed the Disciples feet, and performed the preparative civilities of suppers; at this the conceived the sop was given unto Judas, the Original word implying some broath or decoction, not used at the Passover. The third or latter part was Eucharistical, which began at the breaking and bleffing of the bread, according to that of Matthew, and as they were eating, Jesus took bread and bleffed it.

Now although at the Passover or first supper, many have doubted this Reclining posture, and some have affirmed that our Saviour stood; yet De veterum that he lay down at the other, the same men have acknowledged, as riliber, Chryloftom, Theophylact, Auftin, and many more. And if the tradition will hold, the polition is unquestionable; for the very Triclinium is to be seen at Rome, brought thither by Vespasian, and graphically fet forth

by Cafalins.

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Thus may it properly be made out; what is delivered, John 13. Erat resumbeus unus ex Discipulis ejus in finu fesu quem diligebat; Now there was leaning on Jesus bosom one of his Disciples whom Jesus loved; which gesture will not so well agree unto the position of sitting, but is natural, and cannot be avoided in the Laws of accubation. And the very same expression is to be found in Pliny, concerning the Emperour Nerva and Veiento whom he favoured; Conabat Nerva cum pancis, Veiento recumbebat propries atque etiam in finu; and from this cultom arole the Not in Eveni word impiso, that is, a near and bosom friend. And therefore Canfabon justly rejecteth Theophylast; who not considering the ancient manner Luke 7. of decumbency, imputed this gesture of the beloved Disciple unto Rusticity, or an act of incivility. And thus also have some conceived, it may be more plainly made out what is delivered of Mary Magdalen. That the stood at Christs feet behind him weeping, and began to wash his feet with tears, and did wipe them with the hairs of her head. Which actions, if our Saviour fat, the could not perform flanding, and had rather stood behind his back, than at his feet. And therefore it is not allowable, what is observable in many pieces, and even of Raphael Orbin; wherein Mary Magdalen is pidured before our Saviour, washing his feet on her knees; which will not confift with the strict description and letter of the Text.

Now whereas this position may seem to be discountenanced by our 003

Book

What Denarim, or the penny in the Go-

fucl is.

Ceremonies

omitted.

Translation, which utually renders it fitting, it cannot have that illation, for the French and Italian Translations expressing neither position of fet. fion or recubacion, do only say that he placed himself at the table; and when ours expressed the same by sixting, it is in relation unto our custom, time, and apprehension. The like upon occasion is not unusual: so when it is faid, Luke 4. Alogue to Bibaior, and the Vulgar renders it, Cum plie caffet librum, ours translateth it, he shut or closed the book & which is an expression proper unto the paginal books of our times, but not so agreeable unto volumes or rolling books in use among the Tems, not only in elder times, but even unco this day. So when it is faid, the Samaritan delive. red unto the hoft two pence for the provision of the Levite; and when our Saviour agreed with the Labourers for a penny a day; in ftriet transla. tion it should be seven pence half penny; and is not to be conceived our common penny, the fixrieth part of an ounce. For the word in the Original is Arness, in Latine, Denarine, and with the Romans did value the eight part of an ounce, which after five hillings the ounce amounteth unto feven pence half penny of our money.

Lastly, Whereas it might be conceived that they eat the Passover stand. ing rather than fitting, or lying down, according to the Institution, Exed. 12. Thus shall you eat, with your loins girded, your shooes on of the Paffoyer your feet, and your staff in your hand; the fews themselves reply, this was not required of succeeding generations, and was not observed, but in the Passover of Agypt. And so also many other injuctions were afterward omitted, as the taking up of the Pafchal Lamb, from the tenth day, the eating of it in their houses dispersed; the striking of the blood on the door posts, and the eating thereof in hast. Solemnities and Ceremonies primatively enjoyned, afterward omitted; as was also this of station, for the occasion ceasing, and being in security, they applied themselves unto

> Now in what order of recumbancy Christ and the Disciples were dispofed, is not so easily determined. Cafaline from the Lateran Triclinium will tell us, that there being thirteen, five lay down in the first bed, five in the last, and three in the middle bed; and that our Saviour possessed the upper place thereof. That John lay in the same bed feems plain, because he leaned on our Saviours bosom. That Peter made the third in that bed, conjecture is made, because he beckened unto John, as being next him, to ask of Christ, who it was that should betray him. That Tudas was not far off feems probable, not only because he dipped in the same dish, but because he was so near, that our Saviour could hand the sop

unto him.

gestures in use among them.

CHAP.

CHAP. VIL

Of the Picture of our Saviour with long hair.

Nother Picture there is of our Saviour described with long hair .. according to the custom of the Jews, and his description sent by Lentulus unto the Senate. Wherein indeed the hand of the Painter is not accusable, but the judgement of the common Spectator; conceiving he observed this fashion of his hair; because he was a Nazarite , and confounding a Nazarite by vow, with those by birth or education.

The Nazarite by vow is declared, Numb. 6. And was to refrain three things, drinking of Wine, cutting the hair, and approaching unto the dead; and such a one was Sampson. Now that our Saviour was a Nazarite after this kind, we have no reason to determine; for he drank Wine, and was therefore called by the Pharifees, a Wine-bibber; he approached also the dead, as when he raised from death Lazarus, and the daughter

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The other Nazarite was a Topical appellation, and appliable unto fuch as were born in Nazareth, a City of Galilee, and in the Tribe of Napthali. Neither if strictly taken was our Saviour in this sense a Nazarite; for he was born in Bethlehem in the Tribe of Judah; but might receive that name, because he abode in that City; and was not only conceived therein, but there also passed the silent part of his life, after his return from Egypt; as is delivered by Matthem, And he came and dwelt in a City called Nazareth, that it might be fulfilled which was spoken by the Prophet, He shall be called a Nazarene, Both which kinds of Nazarites, as they are distinguishable by Zain, and Tsade in the Hebrew, Zans. Concordia: fo in the Greek, by Alpha and Omega; for as Jinsenius observeth, Evangelica, where the votary Nazarite is mentioned, it is written, Nasaerie, as Levit. 6, and Lament. 4. Where it is spoken of our Saviour, we read it, Nacuend, as in Matthew, Luke and John; only Mark who writ his Cospel at Rome, did Latinize, and wrote it Nasapurds.

CHAP. VIII.

Of the Picture of Abraham facrificing Isaac.

In the Picture of the Immolation of Isaac, or Abraham sacrificing his son, Isaac is described as a little boy; which notwithstanding is not consentaneous unto the authority of Expositors, or the circumstance of the Text. For therein it is delivered that Isaac carried on his back the wood for the sacrifice; which being an holocaust or burnt offering to be consumed unto ashes, we cannot well conceive a burthen for a boy; but such a one unto Isaac, as that which it typisted was unto Christ, that is, the wood or cross whereupon he suffered; which was too heavy a load for his shoulders, and was fain to be relieved therein by Simon of Cyrene.

Men of emiment fame and prowels et 25. Again, He was so far from a boy, that he was a man grown, and at his full stature, if we believe Josephus, who placeth him in the last of Adalescency, and makes him twenty five years old. And whereas in the Vulgar Translation he is termed puer, it must not be strictly apprehended (for that age properly endeth in puberty, and extendeth but unto sourceen) but respectively unto Abraham, who was at that time above sixscore. And therefore also herein he was not unlike unto him, who was after led dumb unto the slaughter, and commanded by others, who had legions at command; that is, in meckness and humble submission. For had he resisted, it had not been in the power of his aged parent to have enforced; and many at his years have performed such acts, as sew besides at any. David was too strong for a Lion and a Bear; Pompey had deserved the name of Green; Alexander of the same cognomination was Generalissimo of Greece; and Anibal but one year after, succeeded Asarnball in that memorable Was against the Romans.

CHAP. IX.

of the Picture of Moles with horns.

IN many pieces, and some of ancient Bibles, Moses is described with horns. The same description we find in a silver Medal; that is, upon one side Moses horned, and on the reverse the commandment against sculptile Images. Which is conceived to be a coynage of some Jews, in deristion of Christians, who sirst began that Pourtract.

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The ground of this abjurdity, was furely a militake of the Hebre N Fext, in the history of Moses when he descended from the Mount; upon the affinity of Karen and Karan, that is, an horn, and to thine, which is one quality of horn : The Vulgar Translation conforming unto the Exed 34.39 former. Ignorabat quod cornuta effet facies ejm. Qui videbant faci- 35. em Moses effe cornutam. But the Chaldee paraphrase, translated by Paulus Fagius, hath otherwise expressed it. Mofes nesciebat quod mulru effet Splendor gloria vultus ejus. Et viderunt filii Ifrael quod multa effet claritas gloria faciei Moles. The expression of the Septuagint is as large, dedutasan i ous & seaunto & monino, Glorificatus est aspettus cutis, seus coloris faciei.

And this paffage of the Old Testament, is well explained by another a cor. 35 of the New; wherein it is delivered, that they could not stedfastly behold the face of Moses, Ad the degas & monines; that is, for the glory of his countenance. And furely the exposicion of one Text is best performed by another; men vainly interpoling their constructions, where the Scripture decideth the controversie. And therefore some have seemed too active in their expositions, who in the story of Rabab the harlor, have given notice that the word also fignifieth an Hostels; for in the E. piffle to the Hebrews, the is plainly termed men, which fignifies not an Hoftels, but a pecuniary and profittuting Harlot; a term applied unto Lais What kind of by the Greeks, and diftinguished from innien, or amica, as may appear Harlot the in the thirteenth of Athenaus.

And therefore more allowable is the Translation of Tremelline, Qued mar. De visa: fplendida fatta effet entis faciei ejm ; or as Effine hath interpreted it, Elie. facies eius erat radiosa, his face was radiant, and dispersing beams like many horns and cones about his head; which is also consonant unto the original fignification, and yet observed in the pieces of our Saviour, and the Virgin Mary, who are commonly drawn with scintillations, or radient Halo's about their head; which after the French expression are usually

termed, the Glory.

Now if besides this occasional mistake, any man shall contend a propriety in this picture, and that no injury is done unto Truth by this defeription, because an horn is the Hieroglyphick of authority, power and dignity, and in this Metaphor is often used in Scripture; the piece I confefs in this acception is harmless and agreeable unto Mofes: and under emblematical conftructions, we find that Alexander the Great, and Artila King of Hunnes, in ancient Medals are described with horns, But if from the common mistake, or any folary consideration we persist in this description; we vilify the mystery of the irradiation, and authorize a dangerous piece conformable unto that of Inpiter Hammon; which was the Sun, and therefore described with horns; as is delivered by Mucrobino; Hammonem quem Deum folem ocoidentem Lybies existimant; arietivis cornibus fingunt, quibus id animal valet, ficut vadis fot. We herein also imitate the Picture of Pan, and Pagan emblem of Nature. And

Mofes and fed to be the fame perlon, Alolastic.

if (as Macrobius and very good Anthors concede) Bacchus, (who is also Bacchus fappo ! deferibed with horns) be the fame Deity with the Sun , and if (as Voffine well contendeth) Mofes and Baechus were the fame person ; their descrip. De erigine Ido: tions must be relative, or the Tauricornous picture of the one, perhaps the fame with the other.

CHAP. X.

Of the Scutcheons of the Tribes of Ifrael.

E will not pass over the Scutcheons of the Tribes of Ifrael, as they are usually described in the Maps of Canaan and several other pieces; generally conceived to be the proper coats, and distinctive badges of their several Tribes. So Renben is conceived to bear three Bars wave, Judah a Lyon Rampant, Dan a Serpent nowed, Simeon a sword inpale the point erected, &c. The ground whereof is the last Benediction of Faceb, wherein he respectively draweth comparisons from things here represented.

Now herein although we allow a confiderable measure of truth, yet whe ther as they are usually described, these were the proper cognizances, and coat-arms of the Tribes; whether in this manner applyed, and upon the

grounds prefumed material doubts remain.

For first, They are not strictly made out, from the Prophetical bleffing of facob; for Simeon and Levi have distinct coats, that is, a Sword, and the two Tables, yet are they by facob included in one Prophesie, Simeon and Levi are brethren, Inftruments of cruelties are in their habi-So Fofeph beareth an Ox, whereof notwithstanding there is no mention in this Prophelie; for therein it is faid fofeph is a fruitful bough, even a fruitful bough by a well; by which repitition are intimated the two Tribes descending from him, Ephraim and Manoffes; whereof notwithstanding Ephraim only beareth an Ox: True it is, that many years after in the benediction of Moses, it is faid, of Joseph, His glory is like the firstlings of his Bullock: and so we may concede, what Vossius learnedly declareth, that the Egyptians represented Joseph, in the Symbole of an Ox; for thereby was best implied the dream of Pharoab, which he interpreted, the benefit by Agricukure, and provident provision of corn which he performed; and therefore did Serapis bear a bulhel upon his head.

Again, If we take these two benedictions together, the resemblances are not appropriate, and Mofes therein conforms not unto Jacob; for that which in the Prophetic of Jacob is appropriated unto one, is in

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the bleffing of Mofes made common unto others. So whereas Judah is compared unto a Lion by Jacob, Judah is a Lions whelp, the same is applied unto Dan by Moses, Dan is a Lions whelp, he that leap from Barnan, and also unto Gad; he dwelleth as a Lion.

Thirdly, If a Lion were the proper coat of Judah, yet were it not probably a Lion Rampant, as it is commonly described, but rather couchant or dormant, as some Heralds and Rabbins do determine; according to the letter of the Text, Recumbens dormisti ut Leo, He couched as a Lion, and

as a young Lion, who shall rouse him?

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Laftly, when it is faid, Every wan of the Children of Irael thall pitch Nam 2. by his own standard with the Ensign of their fathers house; upon enquiry what thefe standards and Enfigns were there is no small incertainty; and men conform not unto the Prophetie of Jacob. Christian Expositors are fain herein to rely upon the Rabbins, who notwithstanding are various in their traditions, and confirm not these common descriptions. For as for inferiour enfigns, either of particular bands or houses, they determine nothing at all; and of the four principal or Legionary standards, that is, of Judah, Reuben, Ephraim, and Dan (under every one whereof marched The like alio three Tribes) they explain them very variously. Fonathan who compiled P. Fagim upthe Thargum conceives the colours of their banners to answer the precious gumor Chaltiones in the breast-plate, and upon which the names of the Tribes were die Paraphrase engraven. So the standard for the Camp of Judah, was of three colours, of Onkelus. according unto the stones, Chalcedony, Saphir and Sardonix; and there. Num. i. in were expressed the names of the three Tribes, Judah, Isachar, and Zabulon, and in the middest thereof was written, Rife up Lord, and Num. 10. let thy enemies be scattered, and let them that hate thee flee before thee; in it was also the pourtrait of a Lion. The standard of Reuben was also of three colours, Sardine, Topax, and Amethyft; therein were expressed the names of Rouben, Simeon, and Gad, in the middeft was written, Dens. 6. Hear, O Israel, The Lord our God, the Lord is one: Therein was also the pourtraiture of a Hart. But Abenezra and others, beside the colours of the field, do fet down other charges, in Reubens the form of a man or mandrake, in that of Judah a Lion, in Ephraims an Ox, in Dan's the figure of an Eagle.

And thus indeed the four figures in the banners of the principal fqua- Evk 1 drons of Ifrael are answerable unto the Cherubirs in the vision of Ezekiel; every one cartying the form of all thefe. As for the likeness of their faces, they four had the likeness of the face of a Man, and the face of a Lion on the right fide, and they four had the face of an Ox on the left The common fide, they four had also the face of an Eagle. And conformable hereunto Pictures of the the pictures of the Evangelists (whose Gospels are the Christian banners) explicated. are fer forth with the addition of a min or Angel, an Ox, a Lion, and a Eagle. And these symbolically represent the office of Angels; and Ministers of Gods Will; in whom is required understanding as in a man,

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courage and vivacity as in the Lion, tervice and ministerial efficiousness. as in the Ox, expedition or celerity of execution, as in the Eagle.

From hence therefore we may observe that these descriptions, the most authentick of any, are neither agreeable unto one another, nor unto the Scutcheons in question. For though they agree in Ephraim and Judah that is, the Ox and the Lion, yet do they differ in those of Dan, and Reuben, as far as an Eagle is different from a S. rpont, and the figure of a Man, Hart, or Mandrake, from three Bars wave. Wherein notwithstanding we rather declare the incertainty of Arms in this particular, than any way question their antiquity; for hereof more ancient examples there are, than the Scutcheons of the Tribes, if Ofpris, Mizraim or Inpiter The Antiquie the Just, were the Son of Cham; for of his two Sons, as Diodorne delivereth, the one for his Device gave a Dog, the other a Wolf. And, be-

ty of bearing Seutcheons.

fide the shield of Achilles, and many ancient Greeks: if we receive the conjecture of Fosius, that the Crow upon Corvinus his head, was but the figure of that Animal upon his helmet, it is an example of Antiquity among the Romans.

But more widely must we walk, if we follow the doctrine of the Caba. lifts, who in each of the four banners inscribe a letter of the Tetragram. maton, or quadriliteral name of God: and mysterizing their ensigns, do make the particular ones of the twelve Tribes, accommodable unto the twelve figns in the Zodiack, and twelve moneths in the year: But the Tetrarchical or general banners, of Judah, Reuben, Ephraim, and Dan, unto the figns of Aries, Cancer, Libra and Capricornus : that is, the four cardinal parts of the Zodiack, and seasons of the year.

Recius de cale. Ai Agriculinza, lib, 4.

CHAP. XI.

of the Pictures of the Sibyls.

He P. Ctures of the Sibyls are very common, and for their Prophefits of Christ in high esteem with Christians; described commonly with youthful faces, and in a defined number. Common pieces making twelve, and many precisely ten; observing therein the account of Varro; that is, Sibylla, Delphica, Erytheas, Samia, Cumana, Cumas, or Cimmeria, Hellespontiaca, Lybica, Phrygia, Tiburtina, Persica. In which enumeration I perceive learned men are not fatisfied, and many conclude an irreconcilable incertainty; some making more, others fewer, and not this certain number. For Suidas, though he affirm that in diversages there were ten, yet the same denomination he affordeth unto more; Boyfardes in his Tract of Divination hath fet forth the Icons of thefe Ten,

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yet addeth two others, Epirotica, and Egyptia; and some affirm that prophelying women were generally named Sibyls.

Others make them fewer: Martianus Capella two; Pliny and Solinus three; Elian four; and Salmatius in effect but seven. For discoursing hereof in his Plinian Exercitations, he thus determineth; Ridere licer bodiernos Piotores, qui tabulas proponunt Cumana, Cumea, & Erythraa, quasi trium diversarum Sibyllarum; cum una eademque suerit Cumana, Cumea, & Erythraa, ex plurium & dostissimorum Authorum sententia. Bossardus gives us leave to opinion there was no more than one; for so doth he conclude, Intanta Scriptorum varietate liberum relinquimus Lectori credere, an una & eadem in diversis regionibus peregrinata, cognomeu sorita sit ab iis locis ubi oracula reddidisse comperitur, an plures extiterint: And therefore not discovering a resolution of their number from pens of the best Writers, we have no reason to determine the same from the hand and pencil of Painters.

As touching their age, that they are generally described as young women, History will not allow; for the Sibyl whereof Virgil speaketh is termed by him longava sacerdos, and Servius in his Comment amplifieth the same. The other that sold the books unto Tarquin, and whose History is plainer than any, by Livie and Gellius is termed Anus; that is, Anusquest properly no woman of ordinary age, but full of years, and in the dayes Assis, sine menof dotage, according to the Etymology of Festus; and consonant unto the History; wherein it is said, that Tarquin thought she doted with old age. Which duly perpended, the Licentia pilloria is very large; with the same reason they may delineate old Nestor like Adonis, Hecuba with Helens face, and Time with Absolous head. But this absurdity that eminent Artist Michael Angelo hath avoided, in the Pictures of the Cumenan and Persian Sibyls, as they stand described from the printed sculptures

CHAP. XII.

of the Picture describing the death of Cleopatra.

The Picture concerning the death of Cleopatra with two Asps or Renemous Serpents unto her arms, or breasts, or both, requires confideration: for therein (beside that this variety is not excusable) the thing it self is questionable; nor is it indisputably certain what manner of death she died. Plutarch in the life of Antony plainly delivereth, that no man knew the manner of her death; for some affirmed she perished by poison, which she alwayes carried in a little hollow comb, and wore it in her hair. Beside, there were never any Asps discovered in the place

Pp 2

of her dearn, atthough two of her Maids perifhed also with her; only it was said; two small and almost insensible pricks were found upon herain; which was all the ground that Casar had to presume the manner of her death. Galen who was contemporary unto Plutarch; delivereth two wayes of her death: that she killed her self by the bite of an Asp, or bit an hole in her arm, and poured poison therein. Strabo that lived before them both hath also two opinions; that she died by the bite of an Asp, or else a poisonous ointment.

We might question the length of the Asps, which are sometimes described exceeding short; whereas the Chersza or land-Asp which most conceive she used, is above four cubits long. Their number is not unquestionable; for whereas there are generally two described, Angustus (as Plutarch relateth) did carry in his triumph the Image of Cleoparra but with one Asp unto her arm. As for the two pricks, or little spots in her arm, they infer not their plurality; for like the Viper, the Asp hath two teeth; whereby it left this impression, or double puncture behind it.

And lastly, We might question the place; for some apply them unto her breast, which notwithstanding will not consist with the History; and Petrus Victorius hath well observed the same. But herein the mistake was easie; it being the custom in capital malesactors to apply them unto the breast, as the Author De Theriaca ad Pisonem, an eye witness hereof in Alexandria, where Cleopatra died, determineth: I beheld, saith he, in Alexandria, how suddenly these Serpents bereave a man of life; for when any one is condemned to this kind of death, if they intend to use him savourably, that is, to dispatch him suddenly, they sasten an Aspunto his breast; and bidding him walk about, he presently perisheth thereby.

CHAP. XIII.

Of the Pidures of the Nine Worthies.

The Pictures of the nine Worthies are not unquestionable, and to critical spectators may seem to contain sundry improprieties. Some will enquire why Atexander the Great is described upon an Elephante for, we do not find he used that animal in his Armies, much less in his own person; but his Horse is famous in History, and its name alive to this day. Beside, he sought but one remarkable battel, wherein there were any Elephants, and that was with Porm King of India; in which actwithstanding, as Curtime, Arrians, and Platarchiesport, he was

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on Horleback hunter. And it because he fought against Elephanis, he is with propriety fet upon their backs; with no less or greater reason is the same description agrecable unto Judas Maccabens, as may be obserred from the history of the Maccabees; and also unto Julius Cafar, In Splendere whose triumph was honoured with captive Elephants, as may be observed mbu Antique in the order thereof, fee forth by Jacobus Laurus. And if also we should admit this description upon an Elephant, yet were not the manner thereof unquestionable, that is, in his ruling the beast alone; for beside the Champion upon their back, there was also a guide or ruler, which fat more forward to command or guide the beaft. Thus did King Porus ride when he was overthrown by Alexander; and thus are also the towerd Elephants described, Maccab. 2.6. Upon the beafts there were strong towers of wood, which covered every one of them, and were girt fast unto them by devices: there were also upon every one of them thirty two strong men; beside the Indian that ruled them.

Others will demand, not only why Alexander upon an Elephant, but Helter upon an Horse: whereas his manner of fighting, or presenting himself in battel, was in a Chariot, as did the other noble Trojans, who as Pling affirmeth were the first inventers thereof. The same way of fight is testified by Diodorus, and thus delivered by Sir Walter Rawleigh. Of the yulgar little reckoning was made, for they fought all on foor, flightly armed, and commonly followed the success of their Captains; who rode not upon Horses, but in Chariots drawn by two or three Horses. And this was also the ancient way of fight among the Britains, as is delivered by Diodorus, Cafar, and Tacitus; and there want not some who have taken advantage hereof, and made it one argument of their original

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Lastly, By any man versed in Antiquity, the question can hardly be avoided, why the Horses of these Worthies, especially of Casar, are described with the furniture of great saddles, and stirrops; for saddles largely taken, though some defence there may be, yet that they had not the use of ftirrops, seemeth of leffer doubt; as Pancirollus hath observed, De invensione as Polydore Virgil, and Petrus Victorius have confirmed, expresly dif- rerum, vario courfing hereon; as is observable from Pliny, and cannot escape our eyes Lectiones. in the ancient monuments, medals and Triumphant arches of the Ro- The use of For Staphia, Stapes or Stapeda is not to be found in Authors of them. ancient. For Staphia, Stapes or Stapeda is not to be found in Authors of this Antiquity. And divers words which may be urged of this fignification, are either later, or fignified not thus much in the time of Cafar. And therefore as Lipsins observeth, left a thing of common use should want a common word, Franciscus Philelphus named them Stapedas, and Bodinus Subiens Pedaneos. And whereas the name might promise some Antiquity, because among the three small bones in the Auditory Organ, by Physicians, termed Incus, Malleus and stapes, one thereof from some resemblance doth bear this name; these bones were not observed, much

Pp3

lets named by Hippocrates, Galen, or any ancient Physician. But as Laurentius observeth, concerning the invention of the stapes or stirrop bone, there is some contention between Columbus and Ingrassius; the one of Scicilia, the other of Cremona, and both within the compass of this

Century.

The same is also deduceable from very approved Authors: Polybian speaking of the way which Anibal marched into Italy, useth the word Cepanaliem, that is, faith Petrus Victorius, it was fored with devices for men to get upon their horses, which ascents were termed Bemata, and in the life of Cains Gracebus, Plutarch expresseth as much. For endevour. ing to ingratiate himself with the people, besides the placing of stones at every miles end; he made at nearer diffances certain elevated places, and Scalary ascents, that by the help thereof they might with better ease ascend or mount their Horses. Now if we demand how Cavaliers then destinge of flirrops did usually mount their horses; as Lipfins informeth the unable and fofter fort of men had their wingoguis, or Stratores, which helped them up on horse back, as in the practice of Craffus in Plutarch, and Cara. calla in Spartianus, and the later example of Valentinianus, who because his horse rised before that he could not be settled on his back, cut off the right hand of his Strator. But how the active and hardy persons mounted, Vegetius resolves us, that they used to vault or leap up, and therefore they had wooden horses in their houses and abroad: that thereby young men might enable themselves in this action : wherein by instruction and practice they grew so perfect, that they could vault up on the right or left, and that with their sword in hand, according to that of Virgil .

Deve Milie

Poscit equos atque arma simul, saltugue superbus Emicat. And again: Infranant alii currus & corpora saltu Injiciunt in equos.

So Julius Pollux adviseth to teach horses to incline, dimit, and bow down their bodies, that their riders may with better ease ascend them. And thus may it more causally be made out, what Hippocrates affirmed of the Scythians, that using continual riding, they were generally molested with the Sciatica or hip-gout. Or what Suetonius delivereth of Germanicus, that he had stender legs, but encreased them by riding after meals; that is, the humours descending upon their pendulosity, they having no support or suppedaneous stability.

Now if any shall say that these are petty errors and minor lapses not considerably injurious unto truth, yet is it neither reasonable nor say to contemn inferiour falsties; but rather as between falshood and truth.

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there is no medium, so should they be maintained in their distances: nor the contagion of the one, approach the sincerity of the other.

CHAP. XIV.

of the Picture of Jephthah facryficing his daughter.

The hand of the Painter confidently setteth forth the Picture of Jephthab in the posture of Abraham, sacrificing his only daughter:
Thus is it commonly received, and hath had the attest of many worthy
Writers. Notwithstanding upon enquiry we find the matter doubtful,
and many upon probable grounds to have been of another opinion: conthat Isphihab
caiving in this oblation not a natural but a civil kind of death, and a sepadid not kill
his daughter
literal oblation, there want not arguments both from the Text and reafor

For first, It is evident that she deplored her Virginity, and not her death; Let mego up and down the mountains, and bewail my Virginity, I and my fellows.

Secondly, When it is fad, that Fephthah did unto her according unto his vow, it is immediately subjoyend, Et non cognovit virum, and she hew no man; which as immediate in words, was probably most near in sense unto the vow.

Thirdly, It is said in the Text, that the daughters of Israel went yearly to talk with the daughter of Jephthah four dayes in the year; which had she been sacrificed, they could not have done: For whereas the word is sometime translated to lament, yet doth it also signifie to talk or have conference with one, and by Tremellius, who was well able to Judge of the Original, it is in this sense translated: Ibant filis Israelitarum, admisabulandum cum filia Jephthaci, quature diebus quotanno: And so it is also set down in the marginal notes of our Translation. And from this annual concourse of the daughters of Israel, it is not improbable in suture Ages, the daughter of Jephthah came to be worshipped as a Deity; and had by the Samaritans an annual session observed unto her honour, as Epiphanius hath lest recorded in the Heresie of the Melabidesians.

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Ic is also repugnant unto reason; for the offering of mankind was against the Law of God, who so abhorred humane facrifice, that he'ad, mitted not the oblation of unclean beafts, and confined his Altars but unto few kinds of Animals, the Ox, the Goar, the Sheep, the P geon and its kinds: In the cleanfing of the Leper, there is I confess, mention made of the Sparrow; but great dispute may be made whether it be properly rendered. And therefore the Scripture with indignation oft-times makes mention of humane facrifice among the Gentiles; whose oblations scarce made scruple of any Animal, facrificing not only Man, but Hot. fes, Lions, Æagles; and though they come not into holocausts, yet do we read the Syriaus did make oblations of filhes unto the goddels Der. ceto. It being therefore a facrifice so abominable unto God, although he had pursued it, it is not probable the Priests and Wisdom of Israel would have permitted it; and that not only in regard of the subject or facrifice it felf, but also the facrificator, which the Picture makes to be Jephthah; who was neither Prieft, nor capable of that Of. fice: for he was a Gileadite, and as the Text affirmeth, the fon also of an harlot. And how hardly the Priest-hood would enduse encroachment upon their function, a notable example there is in the flow of Ozias.

Secondly, The offering up of his daughter was not only unlawful, and entrenched upon his Religion, but had been a course that had much condemned his discretion; that is, to have punished himself in the strie etelt observance of his vow, when as the Law of God had allowed an evalion; that is, by way of commutation or redemption, according a is determined, Levit. 27. Whereby if the were between the age of five and twenty, the was to be estimated but at ten thekels, and if between twenty and fixey, not above thirty. A fum that could never discourage an indulgent Parent; it being but the value of fervant flain; the inconfiderable Salary of Indas; and will make no greater noise than the pound fifteen shillings with us. And therefore their conceir is not to be exploded, who say that from the story of Jephthah sacrificing his own daughter, might spring the fable of Agamemnon, delivering unto facrifice his daughter Iphigenia, who was also contemporary unto Tephthah: wherein to answer the ground that hinted it, Iphigenia wis not facrificed her felf, but redeemed with an Hart, which Diana accepted for her.

Lastly, Alchough his vow run generally for the words; Whatsoever shall come forth, &c. Yet might it be restrained in the sense, for whatsoever was sacrificable, and justly subject to lawful immolation: and so would not have sacrificed either Horse or Dog, if they had come out upon him. Nor was he obliged by oath unto a strict observation of that which promissionly was unlawful; or could be be qualified by vow to commit a fact which naturally was abominable. Which doctrine had Herad understood, it might have saved Lobn Baptists head; when he promised

by oath to give unto Herodias whattoever the would ask; that is, if it were in the compals of things, which he could lawfully grant. For his oath made not that lawful which was illegal before: and if it were unjust to murther John, the supervenient Oath did not extenuate the fact, or ob-

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Now the ground at least which much promoted the opinion, might be the dubious words of the text, which contain the fense of his vow, most men adhering unto their common and obvious acception. Whatfoever shall come forth of the doors of my house shall surely be the Lords, and I will offer it up for a burnt offering. Now whereas it is faid, Erit Jebova, & offeram illud holocaustum, The word fignifying both & and ant, it may be taken disjunctively; ant offeram, that is, it shall either be the Lords by separation, or else, an holocaust by common oblation; even as our marginal translation advertiseth; and as Tremellius rendreth it, Eritinquam Jehova, aut offeram illud holocaustum: and for the vulgar translation, it useth often or, where aut must be presumed, as Exod. 21. Si quis percusserit patrem & matrem, that is, not both, but either. There being therefore two waies to dispose of her, either to separate her unto the Lord, or offer her as a facrifice, it is of no necessity the later should be necessary; and surely less derogatory unto the sacred text and history of the people of God, must be the former.

CHAP. XV.

Of the Picture of John the Baptist.

The Picture of John the Baptist, in a Camels skin is very questionable, and many I perceive have condemned it. The ground or occasion of this description are the words of the holy Scripture, especially of Matthew and Mark, for Luke and John are silent herein; by them it is delivered, his garment was of Camels hair, and had a leather girdle about his loins. No where it seems the Camels hair is taken by Painters for the skin or pelt with the hair upon it. But this Exposition will not so well consist with the strict acceptation of the words; for Mark. It It is said, he was, or διδυρύων τοίχως καμάλος, and Matthew 3. Το καιδύμα διατιχών καμάλο, that is, as the vulgar translation, that of Beza, that of Sixtus Quintus, and Clement the eight hath rendred it, vestimentum habebat èpilus camelinis; which is as ours translateth it, a garment of Camels hair; that is, made of some texture of that hair, a course garment; a cilicious or sackcloth habit; sutable to the austerity of his life; the severity

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ot his Doctrin, Repentance; and the place thereof, the wilderness.

2. King: 3. 18. his food and diet, locults and wild hony. A greeable unto the example of Elias, who is said to be vir pilosus, that is, as Tremellius intesprets, Veste villoso cinctus, answerable unto the habit of the ancient Prophets, according to that of Zachary. In that day the Prophets shall be ashamed, neither shall they wear a rough garment to deceive; and sutable to the Cilicious and hairy Vests of the strictest Orders of Fryers, who derive the institution of their Monastick life from the example of John and Elias.

As for the wearing of skins, where that is properly intended, the expression of the Scripture is plain; so is it said, Heb. 11. They wandred about in Living. Neguam, that is, in Goats skins; and so it is said of our first Parents, Gen. 3. That God made them Armina depuning, Vestes pelliceas, or coats of skins; which though a natural habit unto all, before the invention of Texture, was something more unto Adam, who had newly learned to die; for unto him a garment from the dead, was but a dictate of death, and an habit of mortality.

Now if any man will say this habit of John, was neither of Camels skin, nor any course Texture of its hair, but rather some siner Weave of Camelot, Grograin or the like, in as much as these stuffs are supposed to be made of the hair of that Animal, or because that Alian affirmeth, that Camels hair of Persia, is as sine as Milesian wool, wherewith the great ones of that place were cloathed; they have discovered an habit, not only unsutable unto his leathern cincure, and the coursens of his life; but not consistent with the words of our Saviour, when reasoning with the people concerning John, he saith, What went you out into the the wilderness to see? a man clothed in soft raiment? Behold, they that wear soft raiment, are in Kings houses.

CHAP. XVI.

of the Picture of St. Christopher.

The Picture of St. (bristopher, that is, a man of a Giantlike stature, bearing upon his shoulders our Saviour Christ, and with a staff in his hand, wading thorow the water, is known unto Children, common over all Europe, not only as a sign unto houses, but is described in many Churches, and stands Colossus like in the entrance of Nostre Dame in Paris.

Now from hence, common eyes conceive an history sutable unto this description,

description, that he carried our Saviour in his Minority over some river or water: which not with standing we cannot at all make out. For we read not thus much in any good Author, nor of any remarkable (briftopher, before the reign of Decius: who lived 250 years after Christ. This man indeed according unto History suffered as a Martyr in the second year of that Emperour, and in the Roman Calendar takes up the 21 of July.

The ground that begat or promoted this opinion, was, first the fabulous adjections of succeeding ages, unto the veritable acts of this Martyr. who in the most probable accounts was remarkable for his staff, and a

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The second might be a mistake or misapprehension of the Picture, most men conceiving that an Hiltory which was contrived at first but as an Emblem or Symbolical fancy: as from the Annotations of Baronius upon the Roman Martyrologie, Lipellous in the life of St. Christopher hath observed in these words; Acta S. Christopheri à multis depravata inveniuntur : quod quidem non aliunde originem sumpsisse certum est : quam quod symbolicas figuras imperiti ad veritatem successu temporis transtulerint: Lip. De visio staque cuntta illa de Santto Christophero pino consueta, simbola potius, Santtorum, quam bistoria alicujus existimandum est esse expressam imaginem; that is, The Acts of St. Christopher are deprayed by many: which surely began from no other ground, then, that in process of time, unskilful men translated symbolical figures unto real verities: and therefore what is usually described in the Picture of St. Christopher, is ratherto be received as an Emblem, or Symbolical description, then any real History. Now what Emblem this was, or what its fignification, conjectures are many; Pierins hath fet down one, that is, of the Disciple of Christ; for he that will carry Christ upon his shoulders, must rely upon the staff of his direction, where on if he firmeth himfelf, he may be able to overcome the billows of refistance, and in the vertue of this staff, like that of faceb, passover the waters of Fordan. Or other wife thus; He that will submit shoulders unto Christ, shall by the concurrence of his power encrease into the strength of a Giant; and being supported by the staff of his holy Spirit, shall not be overwhelined by the waves of the world, but wade through all refiftance.

Add also the mystical reasons of this pourtract alleadged by Vida and Xerifanus: and the recorded story of Christopher, that before his Martyrdom he requested of God, that where ever his body were, the places should be freed from pestilence and mischiefs, from infection. And Anon: Caffeli therefore his picture or pourtract, was usually placed in publick wayes, linnei antiquiand at the entrance of Towns and Churches, according to the received sates Mediclas

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C bristophorum videas, postea unu erus

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CHAP. XVII.

of the Picture of St. George.

The Picture of St. George killing the Dragon, and, as most ancient draughts do run, with the daughter of a King standing by, is samous amongst Christians. And upon this description dependent a solemn story, how by this archievement he redeemed a Kings daughter: which is more especially believed by the English, whose Protector he is: and in which form and history, according to his description in the English Colledge at Rome, he is set forth in the Icons or Cuts of Martyrs by Cavalerius: and all this according to the Historia Lombardica, or golden legend of Iacobus de Voragine. Now of what authority soever this piece be amongst us, it is I perceive received with different beliefs: for some believe the person and the story; some the person, but not the story; and others deny both.

That such a person there was, we shall not contend: for besides others, Dr. Heilin hath clearly afferted it in his History of St. George. The indistinction of many in the community of name, or the misapplication of heacts of one unto another, hath made some doubt thereof. For of this name we meet with more then one in History, and no less then two conceived of Cappadocia. The one an Arrian, who was slain by the Alexandrians in the time of Iulian; the other a valiant Souldier and Christian Martyr, beheaded in the reign of Dioclesian. This is the George conceived in this Picture, who hath his day in the Roman Calender, on whom so many sables are delivered, whose story is set forth by Meia-

phrastes, and his miracles by Turonensis.

As for the story depending hereon, some conceive as lightly thereof, as of that of Persius and Andromeda; conjecturing the one to be the father of the other; and some too highly affert it. Others with better moderation, do either entertain the fame as a fabulous addition unto the true and authentick ftory of St. George; or else conceive the literal acception to be a misconstruction of the symbolical expression; apprehending a veritable history, in an Emblem or piece of Christian Poesie. And this Emblematical construction hath been received by mennot forward toexrenuate the acts of Saints: as from Baronius, Lipellous the Carthulian hath delivered in the life of St. George; Picturam illam St. Georgii qua effingitur eques armatus, qui hasta cuspide bostem interficit, juxta quam ettam virgo polita manus supplices tendens ejus explorat auxilium, Symboli posius quam bistoria alicujus censenda expressa imago. Consuevit quidem ut equestris militia miles equestri imagine referri: that is, The Picture of St. George, wherein he is described like a Curaffier or horseman compleatly armed, &c. Is rather a symbolical image, then any proper figure.

Now in the Picture of this Saint and Souldier, might be implied the Christian Souldier and true Champion of Christ. A horseman armed Cap a pe, intimating the Panoplia or compleat armour of a Christian : combating with the Dragon, that is, with the Devil; in defence of the Kings daughter, that is, the Church of God. And therefore although the history be not made out, it doth not disparage the Knights and Noble order of St. George : whose cognisance is honourable in the Emblem of the Souldier of Christ, and is a worthy memorial to conform unto its. myltery. Nor, were there no fuch perfon at all, had they more reason to be ashamed, then the Noble order of Burgundy, and Knights of the Golden Fleece; whose badge is a confessed fable.

CHAP. XVIII

of the Picture of Jerom.

"He Picture of ferom usually described at his study, with a Clock hanging by, is not to be omitted; for though the meaning be allowable, and probable it is that industrious Father did not let flip his time without account; yet must not perhaps that Clock be set down to have been his measure thereof. For Clocks or Automatous organs, whereby Clocks no vewe now diftinguish of time, have found no mention in any ancient Wri- ty ancient inters but are of late invention, as Pancirollus observeth. And Polydore Vir- vention. eil discoursing of new inventions whereof the authors are not known, makes instance in Clocks and Guns. Now ferom is no late Writer, but one of the ancient Fathers, and lived in the fourth Century, in the reign of Theo dofius the first.

It is not to be denied that before the daies of Terom there were Horologies, and several accounts of time; for they measured the hours not only by drops of water in glaffes called Clepfydra, but also by fand in glasses called Clepsammia. There were also from great antiquity, Scioterical or Sun Dials, by the shadow of a stile or gnomon denoting the hours of the day: an invention ascribed unto Anaximines by Pling. Hereof amemorable one there was in Campus Martins, from an obelisk erected, and golden figures placed horozontally about it; which was brought out of Egypt by Augustus, and described by Jaobus Laurus. And another of great antiquity we meet with in the flory of Ezecbias; for so it is delivered in King. 2. 20. That the Lord brought the shadow back- A peculiar ward ten degrees, not lines; for the hours were denoted by certain divi- description fions or steps in the Dial, which others distinguished by lines, according construction to that of Perfins.

B. Chomer, is let down, Curios de Caffarel. chap. 9.

hereof out of

Stertimus indomitum quod despumare Falernum Sufficiat, quintà dum linea tangitur umbra.

That is, the line next the Meridian, or within an hour of noon.

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Of later years there succeeded new inventions, and horologies compocular motions. fed by Trochilick or the artifice of wheels; whereof some are kept in motion by weight, others perform without it. Now as one age instructs another, and time that brings all things to ruin, perfects also every thing: fo are these indeed of more general and ready use then any that went be. fore them. By the Water-glaffes the account was not regular: for from attenuation and condensation, whereby that Element is altered, the hours were shorter in hot weather then in cold, and in Summer then in Winter. As for Scioterical Dials, whether of the Sun or Moon, they are only of use in the actual radiation of those Luminaries, and are of little advantage unto those inhabitants, which for many months enjoy not the Lustre of the Sun.

> It is I confess no easie wonder how the horometry of Antiquity disco. vered not this Artifice, how Architas that contrived the moving Dove. or rather the Helicosophie of Archimedes, fell not upon this way. Surely as in many things, fo in this particular, the present age hath far surpasfed Antiquity; whose ingenuity hath been so bold not only to proceed below the account of minutes; but to attempt perpetual motions, and engines whose revolutions (could their substance answer the design) might out-last the exemplary mobility, and out measure time it self. For fuch a one is that mentioned by John Dee, whose words are these in his learned Preface unto Euclide: By Wheels strange works and incredible are done: A wondrous example was feen in my time in a certain Inftrument, which by the Inventer and Artificer was fold for twenty talents of gold; and then by chance had received some injury, and one Janellus of Cremona did mend the same, and presented it unto the Emperor Charls the fift. Jeronimus Cardanus, can be my witness, that therein was one Wheel that moved at such a rate, that in seven thousand years his own period should be finished; athing almost incredible, but how far I keep within my bounds, many men yet alive can tell,

CHAP. XIX.

of the Pictures of Mermaids, Unicorns, and some others.

Horace his Monster, with womans head above, and fishy extremity below; and these are conceived to answer the shape of the ancient Syrems that attempted upon Ulysses. Which notwithstanding were of another description, containing no fishy composure, but made up of Man and Bird; the humane mediety variously placed not only above, but below; according unto Aldrovandus: who hath referred their description unto the story of sabulous Birds; according to the description of Ovid, and the account thereof in Hyginus, that they were the daughters of Melpomene, and metamorphosed into the shape of man and bird by Ceres.

And therefore these pieces so common among us, do rather derive their original, or are indeed the very descriptions of Dagon; which was made Dagon the I-with human figure above, and fishy shape below; whose stump, or as dol, of what tremellius and our margin renders it, whose fishy part only remained, is same form. when the hands and upper part fell before the Ark. Of the shape of Arisam. 5. when the hands and upper part fell before the Ark. Of the shape of Arisam. 5. they gates, or Derceto with the Phanitians; in whose sishy and seminine mixture, as some conceive, were implied the Moon and the Sea, or the Deity of the waters; and therefore, in their facrifices, they made oblations of sishes. From whence were probably occasioned the Pictures of Nereides and Tritons among the Grecians, and such as we read in Matrobius, to have been placed on the top of the Temple of Saturn.

We are unwilling to question the Royal Supporters of England, that is, the approved descriptions of the Lion and the Unicorn. Although, if in the Lion, the position of the pizel be proper, and that the natural situation; it will be hard to make out their retrocopulation, or their coupling and pissing backward, according to the determination of Aristo-the; All that urine backward do copulate any object clunation, or aversly, as

Lions, Hares, Linxes.

As for the Unicorn, if it have the head of a Deer, and the tail of a Boar, as Vartomannus describeth it, how agreeable it is to this picture every eye may discern. If it be made bisulcous or cloven footed, it agreeth unto the description of Vartommanus, but scarce of any other; and Aristotle supposeth that such as divide the boof, do also double the horn; they being both of the same nature, and admitting division together. And lastly if the horn have this situation and be so forwardly affixed, as is described, it will not be easily conceived, how it can feed from the ground; and therefore we observe, that Nature in other cornigerous animals,

animals, hath placed the horns higher and reclining, as in Bucks; in fome inverted upwards, as in the Rhinoceros, the Indian Ass, and Unicornous Beetles; and thus have some affirmed it is seated in this ani-

We cannot but observe that in the Picture of Jonat and others, Whales are described with two prominent spouts on their heads; whereas indeed they have but one in the forehead, and terminating over the windpipe. Nor can we overlook the Picture of Elephants with Castles on their backs, made in the form of land Castles, or stationary fortifications, and answerable unto the Arms of Castile, or Sr. John Old Castle: whereas the towers they bore, were made of wood, and girt unto their bodics; as is delivered in the books of Maccabees, and as they were ap.

pointed in the Army of Antiochus.

We will not dispute the Pictures of Retiary Spiders, and their position in the web, which is commonly made lateral, and regarding the Horizon; although, if observed, we shall commonly find it downward, and their heads respecting the Center. We will not controver the Picture of the feven Stars , although if thereby be meant the Pleiades, or subconstellation upon the back of Taurus, with what congruity they are described, either in site or magnitude, in a clear night an ordinary eye may discover, from July unto April. We will not question the tongues of Adders and Vipers, described like an Anchor; nor the Picture of the Flower de Luce : though how far they agree unto their natural draughts, let every Spectator determine.

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tuated.

Whether the Cherubims about the Ark be rightly described in the 2 Chron. 1.13. common Picture, that is, only in humane heads, with two wings; or rather in the shape of Angels or young men, or somewhat at least with feet, as the Scripture feems to imply. Whether the Crofs feen in the air by Constantine, were of that figure wherein we represent it; or rather made out of X and P, the two first letters of 25150s. Whether the Crofs of Christ did answer the common figure; whether so far advanced above his head; whether the feet were so disposed, that is, oneupon another, or separately nailed, as some with reason describe it : we shall not at all contend. Much less whether the house of Diogenes were a Tub framed of wood, and after the manner of ours, or rather made of earth, as fearned men conceive, and so more clearly make out that expression of Juvenal. We should be too critical to question the letter ", or bicornous element of Pythagoras, that is, the making of the horns equal: or the left less then the right, and so destroying the Symbolical intent of the figure; confounding the narrow line of Vertue, with the larger roadof Vice; answerable unto the narrow door of Heaven, and the ample gates of Hell, expressed by our Saviour, and not forgotten by Homer, in that Epithete of Pluto's house.

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Many more there are whereof our pen shall take no notice, nor shall we urge this enquiry; we shall not enlarge with what incongruity, and how diffenting from the pieces of Antiquity, the Pictures of their gods and godd effes are described, and how hereby their symbolical sense is lost: although herein it were not hard to be informed from Phornutus, Fulgentius, and Albricus. Whether Hercules be more properly described Atrangling than tearing the Lion, as Victorius hath disputed; nor how the characters and figures of the Signs and Planets be now perverted, as Salmasius hath learnedly declared. We will dispence with Bears with long tails, fuch as are described in the figures of heaven; We shall tolerate flying Horses, black Swans, Hydra's, Centaur's, Harpies and Satyrs; for these are monstrosities, rarities, or else Poetical fancies, whose shadowed moralities require their substantial falsities. Wherein indeed we must not deny a liberty; nor is the hand of the Painter more restrainable than the Poet. But where the real works of Nature, or veritable acts of stories are to be described, digressions are aberrations: and Art being but the Imitator or secondary representor, it must not vary from the verity of the example; or describe things otherwise than they truly are or have been. For hereby introducing falle Idea's of things it perverts and deforms the face and symmetry of truth.

CHAP. XX.

of the Hieroglyphical Pictures of the Egyptians.

Ertainly of all men that suffered from the consustion of Babel, the Agyptians sound the best evasion; for, though words were confounded, they invented a language of things, and spake unto each other by common notions in Nature. Whereby they discoursed in silence, and were intuitively understood from the theory of their Expresses. For they assumed the shapes of animals common unto all eyes; and by their conjunctions and compositions were able to communicate their conceptions, unto any that co apprehended the Syntaxis of their Natures. This many conceive to have been the primative way of writing, and of greater antiquity than letters; and this indeed might Adam well have spoken, who understanding the nature of things, had the advantage of natural expressions. Which the Egyptians but taking upon trust, upon their own or common opinion; from conceded mistakes they authentically promoted errors; describing in their Hieroglyphicks creatures of their own invention;

Book

invention; or from known and conceded animals, erecling fignifications not inferrible from their natures.

And first, Although there were more things in Nature than words which did express them; yet even in these mute and filent discourses, to express complexed fignifications, they took a liberty to compound and piece together creatures of allowable forms into mixtures inexistent, Thus began the descriptions of Griphins, Basilicks, Phoenix, and many more; which Emblematists and Heralds have entertained with fignifications answering their institutions; Hieroglyphically adding Martegres, Wivernes, Lion fishes, with divers others. Pieces of good and allowable invention unto the prudent Spectator, but are lookt on by vulgar eyes as literal truths, or abfurd impossibilities; whereas indeed, they are commendable inventions, and of laudable fignifications.

Again, Beside these pieces sictitiously set down, and having no Co. py in Nature; they had many unquestionable drawn, of inconsequent fignification, nor naturally verifying their intention. We shall instance but in few, as they stand recorded by Orus. The male fex they expressed by a Vulture, because of Vultures all are females, and impregnated by the wind; which authentically transmitted hath passed many pens, and became the affertion of Alian, Ambrose, Basil, Isidore, Tzetzes, Philes, and others. Wherein notwithstanding what injury is offered unto the Creation in this confinement of fex, and what diffurbance unto Philosophy in the concession of windy conceptions, we shall not here declare. By two dragms they thought it sufficient to significan heart; because the heart at one year weigheth two dragms, that is, a quarter of an ounce, and unto fifty years annually encrealeth the weight of one dragm, after which in the same proportion it yearly decreaseth; fo that the life of a man doth not naturally extend above an hundred, And this was not only a popular conceit, but consentaneous unto their Physical principles, as Heurnius hath accounted it.

A Woman that hath but one Child, they express by a Lioness; for that conceiveth but once. Fecundity they fet forth by a Goat, because but seven daies old, it beginneth to use coition. The abortion of a Woman they describe by an Horse kicking a Wolf; because a Mare will cast her foal if the tread in the track of that animal. Deformity they fignifie by a Bear; and an unstable Man by an Hyæna, because that animal yearly exchangeth its fex. A Woman deliverered of a female Child, they imply by a Bull looking over his left shoulder; because if in coinon a Bull part from a Cow on that fide, the Calf will prove a female.

All which, with many more, how far they consent with truth, we shall not disparage our Reader to dispute; and though some way allowable unto wifer conceits, who could diftinely receive their fignifications: yet carrying the majesty of Hieroglyphicks, and so transmitted by Authors: they crept into a belief with many, and favourable doubt with most.

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most. And thus, I fear, it hath fared with the Hieroglyphical Symboles of Scripture: which excellently intended in the species of things sacrificed, in the prohibited meats, in the dreams of Pharaoh, Joseph, and many other passages: are oft-times wrackt beyond their symbolizations, and inlarg'd into constructions disparaging their true intentions.

CHAP, XXI.

of the Picture of Haman hanged.

IN common draughts, Haman is hanged by the Neck upon an high Gibbet, after the usual and now practised way of suspension, but whether this description truly answereth the Original, Learned pens consent not, and good grounds there are to doubt. For it is not easily made out that this was an ancient way of Execution, in the publick punishment of Malesactors among the Persians; but we often read of Crucifixion in their Stories. So we find that Orostes a Persian Governour crucified Polycrates the Samian Tyrant. And hereof we have an example in the life of Artaxerxes King of Persia; (whom some will have to be Abasuerus in this Story) that his Mother Parysatis slead and crucified her Ennuch. The same also seems implied in the letters patent of King Cyrus. Omnis qui banc mutaverit justionem, tollatur lignum de do. In Eva 6. mo ejus, & erigatur & consignatur in eo.

The same kind of punishment was in use among the Romans, Syrians, Egyptians, Carthaginians and Grecians. For though we find in Homer, that Olysses in a fury hanged the strumpets of those who courted Penelope, yet is it not so easie to discover, that this was the publick practice or open

course of justice among the Greeks.

And even that the *Hebrews* used this present way of hanging, by illaqueation or pendulous suffocation in publick justice and executions; the expressions and examples in scripture conclude not beyond good doubt.

That the King of Hai was hanged, or destroyed by the common way of suspension, is not conceded by the learned Massus in his comment upon that text; who conceive the thereby rather some kind of crucifixion; at least some patibulary affixion after he was slain; and so represented unto the people untill toward the evening.

Though we read in our translation, that *Pharach* hanged the chief Baker, yet learned expositors understand, hereby some kind of crucifixion, according to the mode of *Egypt*, whereby he exemplatily hanged out till the sowls of the air sed on his head or face, the first part of their prey

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being the eyes. And perhaps according to the fignal draught hereof in a very old manuscript of Genesis, now kept in the Emperors Library at Vienna; and accordingly set down by the learned Petrus Zamberius, in

the fecond Tome of the description of that Library.

When the Gibeonites hanged the bodies of those of the house of san, thereby was intended some kind of crucifying, according unto good expositors, and the vulgar translation; crucifixerunt eos in monte coram domino; many both in Scripture and humane writers might be said to be crucified, though they did not perish immediately by crucifixion: But however otherwise destroyed, their bodies might be afterward appended or fastned unto some clevated engine; as exemplary objects unto the eyes of the people: So sometimes we read of the crucifixion of only some part, as of the Heads of Julianus and Albinus, though their bodies were cast away.

Deut. 21.

Sinsworth.

That legal Text which seems to countenance the common way of hanging, if a man hath committed a fin worthy of Death, and they hang him on a Tree; is not so received by Christian and Jewish expositors. And as a good Annotator of ours delivereth, out of Maimonides: The Hebrews understand not this of putting him to death by hanging, but of hanging of a Man after he was stoned to death; and the manner is thus described. After he is stoned to death, they fasten a piece of timber in the Earth, and out of it there commeth a piece of wood, and then they tye both his hands one to another, and hang him unto the setting of the Sun.

Beside, the original word Hakany determineth not the doubt. For that by Lexicographers or Distinuarie interpreters, is rendred suspension and crucifixion; there being no Hebren word peculiarly and fully expressing the proper word of crucifixion, as it was used by the Romans; nor easie to prove it the custon of the Jewish Nation to nail them by distinct parts unto a Cross, after the manner of our Saviour crucified: wherein it was a special favour indulged unto Joseph to take down the

Body.

Zipsias lets fall a good caution to take off doubts about suspension delivered by ancient Authors, and also the ambiguous sence of registry among the Greeks. Tale apud Latinos ipsum suspendere, quod in crucem referendum moneo juventutem, as that also may be understood of Senecal Latrocinium fecit aliquis, quid ergo meruit? ut suspendatur. And this way of crucifying he conceiveth to have been in general use among the Romans, until the latter daies of Constantine, who in reverence unto our Saviour abrogated that opprobrious and infamous way of crucifixion. Whereupon succeeded the common and now practifed way of suspension.

But long before this abrogation of the Cross, the Jewish Nation had known the true sense of crucifixion: whereof no Nation had a sharper apprehension, while Adrian crucified siye hundred of them every

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day, until Wood was wanting for that fervice. So that they which had nothing but crucifie in their mouths, were therewith paid home in their own bodies : Early fuffering the reward of their imprecations, and properly in the same kind.

XXII. CHAP.

Compendiously of many questionable Customs, Opinions, Pictures, Practices, and Popular Observations.

LIF an Hare cross the high way, there are few above threescore years that are not perplexed thereat : which not with standing is but an Augurial terror, according to that received expression, Inauspicatum dat iter oblatus Lepus. And the ground of the conceit was probably no greater than this, that a fearful animal passing by us, portended unto us some thing to be feared: as upon the like confideration, the meeeting of a Fox prefaged some future imposture; which was a superstitious observation prohibited unto the Jens, as is expressed in the Idolatry of Maimonides, and is referred unto the fin of an observer of Fortunes, or one that abufeth events unto good or bad figns ; forbidden by the Law of Mofes; The ground of which notwithstanding sometimes succeeding, according to fears or de- may vain obfires, have left impressions and timerous expectations in credulous minds fervations. for ever.

2. That Owls and Ravens are ominous appearers, and pre-fignifying unlucky events, as Christians yet concert, was also an Augurial conception. Because many Ravens were seen when Alexander entred Babylon, they were thought to pre-ominate his death; and because an Owlappeared before the battle, it presaged the ruin of Crassis. Which though decrepite superstitions, and such as had their nativity in times beyond all history, are fresh in the observation of many heads, and by the credulous and feminine party still in some Majesty among us. And therefore the Emblem of Superstition was well set out by Ripa, in the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well set out by Ripa, which we will be superstition with the picture of superstition was well as wel of an Owl, an Hare, and an Old Woman. And it no way confir-on. meth the Augurial confideration, that an Owl is a forbidden food in reonalogia de the Law of Moses; or that Jerusalem was threatned by the Raven and Casare Kipa. the Owl, in that expression of Esay 34. That it should be a court for Oals, that the Cormorant and the Bittern should possess it, and the Oal and the Raven dwell in it. For thereby was only implied their enfuing desolation, as is expounded in the words succeeding; He shall draw upon it the line of confusion, and the stones of emptiness.

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3. The falling of Salt is an authentick presagement of ill luck, nor can every temper contemn it, from whence notwithstanding nothing can be naturally feared: nor was the same a general prognostick of suture evil among the Ancients, but a particular omination concerning the breach of friendship. For Salt as incorruptible, was the Symbole of friendship, and before the other service was offered unto their guests; which if it casually fell, was accounted ominous, and their amity of no duration. But whether Salt were not only a Symbole of friendship with man, but also a figure of amity and reconciliation with God, and was therefore observed in sacrifices; is an higher speculation.

4. To break the egg shell after the meat is out, we are taught in our childhood, and practise it all our lives; which nevertheless is but a superstitious relict, according to the judgment of Pliny, Huc pertinet overum, ne exrobnerit quiss, calices protinus frangi, aut eosdem coclearibus persorati; and the intent hereof was to prevent witchcraft; for lest witches should draw or prick their names therein, and veneficiously mischief their persons, they broke the shell, as Dalecampius hath observed.

5. The true Lovers knot is very much magnified, and still retained in presents of Love among us; which though in all points it doth not make it out, had perhaps its original from the Nodus Herculanus, or that which was called Hercules his knot, resembling the snaky complication in the caduccus or rod of Hermes; and in which form the Zone or woollen girdle of the Bride was sastned, as Turnebus observeth in his Adversaria.

6. When our cheek burneth or ear tingleth, we usually say that some body is talking of us, which is an ancient conceit, and ranked among susuperstitious opinions by Pliny. Absentes tinnitu aurium prasentire sermones de se receptum est, according to that distick noted by Dalecampius.

Garrula quid totis refonas mihi noctibus auris ? Nescio quem dicis nunc meminisse mei.

Which is a conceit hardly to be made out without the concession of a fignifying Genius, or universal Mercury; conducting sounds unto their distant subjects, and teaching us to hear by touch

distant subjects, and teaching us to hear by touch.

7. When we desire to confine our words, we commonly say they are specified in fooken under the Rose; which expression is commendable, if the Rose from any natural property may be the Symbole of silence, as Nazianzene species, &c.

Utý, latet Rosa Verna suo putamine clausa, Sic os vincla ferat, validisý, arctetur habenis, Indicaiý, suis prelixa slentia labris: an

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And is also tolerable, if by desiring a secrecy to words spoke under the Rose, we only mean in society and compotation, from the ancient custom in Symposiack meetings, to wear chaplets of Roses about their heads: and so we condemn not the German custom, which over the Table describeth a Rose in the cieling. But more considerable it is, if the original were such as Lemnius, and others have recorded; that the Rose was the slower of Venus, which Cupid consecrated unto Harpocrates the God of silence, and was therefore an Emblem thereof, to conceal the pranks of Venery; as is declared in this Tetrastick;

Est Rosa slos veneris, cujus quo fatta laterent, Harpocrati matris, dona dicavit Amor; Inde Rosam mensis hospes suspendit Amicis. Conviva ut sub ed ditta tacenda sciant.

8. That smoak doth follow the fairest, is an usual saying with us, and in many parts of Europe; whereof although there seem no natural ground, yet is it the continuation of a very ancient opinion, as Petrus Victorius and Causabon have observed from a passage in Atheneus: wherein a Parasise thus describe th himself:

To every Table first I come, whence Porridg I am call d by some : A Capaneus at Stares I am, To Enter any Room a Ram; Like whips and thongs to all I ply, Like smake unto the Fair I sty.

9. To sit cross leg'd, or with our fingers pectinated or shut together, is accounted bad, and friends will persuade us from it. The same conceit religiously possessed the Ancients, as is observable from Pliny. Poplites alternis genibus imponere nesalim; and also from Athenaus, that it was an old veneficious practice, and Juno is made in this posture to hinder the delivery of Alemena. And therefore, as Pierius observeth, in the Medal of Julia Pi, the right hand of Venus was made extended with the inscription of Venus, Genetrix; for the complication or pectination of the singers was an Hieroglyphick of impediment, as in that place he declareth.

10. The fet and statary times of pairing of nails, and cutting of hair, is thought by many a point of consideration; which is perhaps but the continuation of an ancient superstition. For piaculous it was unto the Romans to pare their nails upon the the Nundinæ, observed every ninth day; and was also feared by others in certain daies of the week; according to that of Ausonius, Ungues Mercurio, Barbam Jove, Cypride Crines; and was one part of the wickedness that filled up the measure of Manasses, when tis delivered that he observed times.

2 Chron. 15.

which is the perpetuation of a very ancient custom; and though innocently practifed among us, may have a superstitious original, according to that of Pling. Navos in facie tonders religiosum habent nunc multi. From the like might proceed the fears of poling Elvelocks or complicated hairs of the head, and also of locks longer than the other hair; they being votary at first, and dedicated upon occasion; preserved with great care, and accordingly esteemed by others, as appears by that of Apulei. 11. Adjuro per dulcem capilli tuinodulum.

12. A custom there is in most parts of Europe to adorn Aqueducts, spouts and Cisterns with Lions heads: which though no illaudable ornament, is of an Egiptian geneology, who practised the same under a symbolical illation. For because the Sun being in Leo, the flood of Nilus was at the full, and water became conveyed into every part, they made the spouts of their Aqueducts through the head of a Lion. And upon some coelestial respects it is not improbable the great Mogul or Indian King doth bear for his Arms a Lion and the Sun.

Symbolical fignifications of the girdle. they are unblest until they put on their girdle. Wherein (although most know not what they say) they are involved unknown considerations. For by a girdle or cincture are symbolically implied Truth, Resolution, and Readiness unto action, which are parts and vertues required in the service of God. According whereto we find that the Israelites did eat the Paschal Lamb with their loins girded, and the Almighty challenging Job, bids him gird up his loins like a man. So runneth the expression of Peter, Gird up the loins of your minds, be sober and hope to the ends so the high Priest was girt with the girdle of fine linnen: so is it part of the holy habit to have our lines girt about with truth; and so is it also said concerning our Saviour, Righteousness shall be the girdle of his loins, and faithfulness the girdle of his reins.

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Moreover by the girdle, the heart and parts which God requires are divided from the inferior and concupifcential organs; implying thereby a memento unto purification and cleanness of heart, which is commonly defiled from the concupifcence and affection of those parts; and therefore unto this day the Jens do bless themselves when they put on their zone or cincture. And thus may we make out the doctrin of Pythagorus, to offer sacrifice with our feet naked, that is, that our inferiour parts and farthest removed from reason might be free, and of no impediment unto us. Thus Achilles, though dipped in Styx, yet having his hecluntouched by that water; although he were fortisted elsewhere, he was stain in that part, as only vulnerable in the inferiour and brutal part of Man.

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This is that part of Eve and her potterity the devil still doth bruise, that is, that part of the foul which adhereth unto earth, and walks in the paths thereof. And in this fecundary and symbolical sense it may be also underflood, when the Priefts in the Law washed their feet before the sacrifice; when our Saviour washed the feet of his Disciples, and said unto Peter, If I wash not thy feet thou hast no part in me. And thus is it symbolically explainable, and implyeth purification and cleannels, when in the burnt offerings the Priest is commanded to wash the inwards and legs thereof in water; and in the peace and fin-offerings, to burn the two kidneys, the fat which is about the flanks, and as we translate it, the Imital Caul above the Liver. But whether the Jews when they bleffed themselves, had any eye unto the words of Jeremy, wherein God makes them his Girdle; or had therein any reference unto the Girdle, which the Prophet was commanded to hide in the hole of the rock of Emphrates, and which was the type of their captivity, we leave unto higher conjecture.

14. The Picture of the Creator, or God the Father in the shape of an Certain Floreold Man, is a dangerous piece, and in this Fecundity of feels may revive sicks who afthe Anthropomorphices. Which although maintained from the expression cribedhumane on of Daniel, I beheld where the Ancient of dayes did fit, whose hair of figure unto his head was like the pure wool; yet may it be also derivative from the which they Hieroglyphical description of the Egyptians; who to express their La conceived he neph, or Creator of the world, described an old man in a blew mantle, created man with an egg in his mouth; which was the Emblem of the world. Surely in his likenels. those heathens, that notwithstanding the exemplary advantage in heaven, would endure no pictures of Sun or Moon, as being visible unto all the world, and needing no representation; do evidently accuse the pradice of those pencils, that will describe invisibles. And he that challenged the boldest hand unto the picture of an Echo, must laugh at this attempt, not only in the description of invisibility, but circumscription of Ubiquity, and fetching under lines incomprehensible circula-

The Pictures of the Egyptians were more tolerable, and in their facred letters more veniably expressed the apprehension of Divinity. For though they implied the same by an eye upon a Scepter, by an Eagles head, a Crocodile, and the like : yet did these manual descriptions pretend no corporal reprefentations; nor could the people misconceive the same unto real correspondencies. So though the Cherub carried some apprehension of Divinity, yet was it not conceived to be the shape thereof: and so perhaps because it is metaphorically predicated of God, that he is a confuming fire, he may be harmlestly described by a flaming representation; Yet if, as some will have it, all mediocrity of folly is foolish, and because an unrequitable evil may enfue, an indifferent convenience must be omitted; we shall not urge such representments; we could spare the holy Lamb for the picture of our Saviour, and the Dove or fiery Tongues to represent

the holy Ghost.

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Or quarrelfom with Pictures. Dion. Ep.y-a-ad Policar, & Per. Hall not. in wit. & Dionyf. whether herein there he not a Pagan imitation, and those visages at first implied Apollo and Diana, we may make some doubts and we find the status of the Sun was framed with raies about the head, which were the indicideous and unshaven locks of Apollo. We should be too Iconomical to question the pictures of the winds, as commonly drawn in humane heads, and with their cheeks distended; which notwithstanding we find condemined by Minutius, as answering poetical fancies, and the gentile description of Aolus, Boreas, and the seigned Deities of winds.

er, if we say the Sun doth not dance on Easter day. And though we would willingly aftent unto any sympathetical exultation, yet cannot conceive therein any more than a Tropical expression. Whether any such motion there were in that day wherein Christ arised, Scripture hath not revealed, which bath been punctual in other records concerning solary miracles; and the Areopagite that was amazed at the Eclipse, took no notice of this. And if metaphorical expressions go so far, we may be bold to affirm, not only that one Sun danced, but two arose that day. That light appeared at his nativity, and darkness at his death, and yet a light at both; for even that darkness was a light unto the Geneile, illuminated by that obscurity. That 'twas the first time the Sun set above the Horizon; that although there were darkness above the earth, there was light beneath it, nor dare we say that hell was dark if he were in it.

ing, commonly called the Silly-bow, that sometimes is found about the heads of children upon their birth; and is therefore preserved with great care, not only as medical in diseases, but effectual in success, concerning the Insant and others; which is surely no more than a continued superstition. For hereof we read in the life of Antonians delivered by Spartians, that children are born sometimes with this natural cap; which Midwives were wont to sell unto credulous Lawyers, who had an opinion it advantages.

taged their promotion.

But to speak strictly, the effect is natural, and thus may be conceived; Animal conceptions have largely taken three reguments, or membranous films which cover them in the womb, that is, the Corion, Amnios, and Allantois; the Corion is the outward membrance wherein are implanted the Veins, Arteries and umbilical vessels, whereby its nourishment is conveyed; the Allantois a thin coar seated under the Corion, wherein are received the watery separations conveyed by the Urachus, that the aerimony thereof should not offend the skin. The Amnios is a general investment, containing the sudorus or thin serosity perspirable through the skin. Now about the time when the Infant breaketh these coverings, it sometime extents with it about the head a part of the Amnios or nearest coar; which

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which faith Spiegeliss, either proceedeth from the toughnels of the membrance or weakness of the Infant that cannot get clear thereof, And therefore herein fignifications are natural and concluding upon the Infant, but not to be extended unto magical fignalities, or any other

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is. That 'tis good to be drunk once a moneth, is a common flattery of fenfuslity, supporting it felf upon Physick, and the healthful effects of inebriacion. This indeed feenis plainly affirmed by Avicenna, a Phylician of great authority, and whose religion prohibiting Wine, could less extenuace ebriery. But Averroes a man of his own faith was of another belief; restraining his ebriety unto hilarity, and in effect makingino more thereof than Seneca commendeth, and was allowable in Cato; that is, a lober incalescence and regulated altuation from wine; or what may be conceived between Toleph and his brethren, when the text expresfeththey were merry, or drank largely, and whereby indeed the commodities fet down by Avicenna, that is, alleviation of spirits, resolution of superfluities, provocation of sweat and urine may also ensue. But as for dementation, sopition of reason, and the diviner particle from drink; though American religion approve, and Pagan piety of old hath practised it, even at their sacrifices; Christian morality and the doctrine of Christ will not allow. And surely that religion which excuses the fact of Noah, in the aged surprizal of hix hundred years, and unexpected inebriation from the unknown effects of wine, will neither acquit ebriofity nor ebriery, in their known and intended perversions.

And indeed, although sometimes effects succeed which may relieve the body, yet, if they carry mischief or peritunto the foul, we are therein re-Reginable by Divinity, which circumscribeth Physick, and circumstantially determines the use thereof. From natural confiderations, Physick commendeth the use of venery; and happily, incest, adultery, or stupration may prove as Physically advantagious, as conjugal-copulation; which notwithstaning must not be drawn into practise. And truly effects, confequencs, or events which we commend, arise oft-times from wayes which we all condemn. Thus from the fact of Lot, we derive the generation of Ruth, and bleffed Nativity of our Saviour; which notwithstanding did not extenuate the incestuous ebriety of the generator. And if, as is commonly usged, we think to extenuate ebriery from the benefit of vomit of beceeding, Egyptian fobriety will condemn us, which purged both wayes twice a mancely without this perturbation : and we foolishly contemn the liberal hand of God, and ample field of medicines which sobriery produce.

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19. A conceit there is, that the Devil commonly appeareth with a cloven Why the devil hoofs, wherein although it feem exceffively ridiculous, there may be fome is commonly faid to appear what of truth; and the ground thereof at first might be his frequent ap- with a closes pearing in the thepe of a Goat, which answers that description. This'was foot. the opinion of ancient Christians concerning the apparition of Painters,

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Fauns and Satyres; and in this form we read of one that appeared unto Autony in the wilderness. The fame is also confirmed from expositions of holy Scripture; for whereas it is faid, Thou shalt not offer unto De. vils, the Original word is Seghnirim, that is, rough and hairy Goats because in that shape the Devil most often appeared; as is expounded by the Rabbins, as Tremelline hath also explained; and as the word Afei. mah, the god of Emath is by some conceived. Nor did he only affume this shape in elder times, but commonly in later dayes, especially in the place of his worthip, If there be any truth in the confession of Witches, and as in many flories it stands confirmed by Bodinsus. And therefore a Goat is not improperly made the Hieroglyphick of the devil, as Pierim hath expressed it. So might it be the Emblem of fin, as it was in the finoffering; and fo likewise of wicked and finful men, according to the expression of Scripture in the method of the last distribution; when our Saviour shall separate the Sheep from the Goats, that is, the Sons of the Lamb from the children of the devil.

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CHAP. XXIII.

Of some others.

De variesaie raum. Hat temperamental dignotions, and conjecture of prevalent had mours, may be collected from spots in our nails, we are not averse to concede. But yet not ready to admit sundry divinations, vulgarly raised upon them. Nor do we observe it verified in others, what Cardan discovered as a property in himself: to have found therein some signs of most events that ever happened unto him. Or that there is much considerable in that doctrine of Cheiromancy, that spots in the top of the nails do signific things past; in the middle, things present; and at the bottom, events to come. That white specks presage our felicity, blew ones our missortunes. That those in the nail of the thumb have significations of honour, those in the foresinger, of riches, and so respectively in other singers, (according to Planetical relations, from whence they receive their names) as Tricassme hath taken up, and Pieciolus well rejecteth.

We shall not proceed to querie, what truth there is in Palmistry, or divination from those lines in our hands, of high denomination. Although if any thing be therein, it seems not confinable unto man; but other creatures are also considerable; as is the fore-foot of the Moll, and especially of the Monkey; wherein we have observed the table line, that of

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3. That Children committed unto the school of Nature, without intirution would naturally speak the primative language of the world, was the opinion of ancient heathens, and continued fince by Christians; who will have it our Hebrew tongue, as being the language of Adam. That this were true, were much to be defired, not only for the cafe attainment of that useful tongue, but to determine the true and primitive Hebrew. For whether the present Hebrew, be the unconfounded language of Babel. and that which remaining in Heber was continued by Abraham and his posterity, or rather the language of Phanicia and Canaan, wherein he lived, some learned men I perceive do yet remain unsatisfied. Although I confess probability stands fairest for the former: nor are they without all reason, who think that at the confusion of tongues, there was no conftitraion of a new speech in every family : but a variation and permutation of the old; out of one common language raising several Dialects: the How Abraham primitive tongue remaining ftill intire. Which they who retained, might might undermake a shift to understand most of the rest. By vertue whereof in those stand the lanprimitive times and greener confusions, Abraham of thefamily of Heber guage of sevewas able to converse with the Chaldeans, to understand Mesopotamians, ral Nations. Cananites, Philistins, and Egyptians: whose several Dialects he could reduce unto the Original and primitive tongue, and so to be able to underfand them.

3. Though ufeless unto us, and rather of molestation, we commonly refrain from killing Swallows, and esteem it unlucky to destroy them: whether herein there be not a Pagan relique, we have some reason to doubt. For we read in Elian, that these birds were facred unto the Penates or The same is houshold gods of the ancients, and therefore were preferred. The same extant in the they also honoured as the nuncio's of the spring; and we find in Athenaus 8th of Athes that the Rhodians had a foleren fong to welcome in the Swallow.

4. That Candles and Lights burn dim and blew at the apparition of Why candles fpirits, may be true, if the ambient ayr be full of sulphurous spirits, as may burn it happeneth oft-times in mines; where damps and acide exhalations are blew, before able to extinguish them. And may be also verified, when spirits do make of a spirits themselves wifible by bodies of such effluviums. But of lower consideration is the common foretelling of Arangers, from the fungous parcels about the weeks of Candles: which only fignifieth a moift and pluvious ayr about them, hindering the avolation of the light and favillous particles : whereupon they are forced to fettle upon the Snaft.

7. Though Coral doth properly preserve and fasten the Teeth in men, yet is it used in Children to make an eather passage for them : and for that intent is worn about their necks. But whether this cufton: were not fuper. Lib. 32. fitiously founded, as presumed an amulet or desensative against fascination, is not beyond all doubt. For the same is delivered by Pliny. Arm-Spices religiofum Coralli gestamen amoliendis periculis arbitrantur; & surculi infantia alligati, tutelam habere creduntur.

6. A strange kind of exploration and peculiar way of Rhabdomancy is

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this worch is stied in mineral discoveries; that is, with a forked hazel, commonly called Moses his Rod, which freely held forch, will stir and play if any mine be under it. And though many there are who have attempted to make it good, yet until better information, we are of opinion with Agricola, that in it self it is a struitless exploration, strongly scenting of Pagan derivation, and the virgula Divina, proverbially magnified of old. The ground whereof were the Magical rods in Poets that of Pallas in Momer, that of Mercury that charmed Argus, and that of Circe which transformed the followers of Unites. Too boldly usurping the name of Moses rod, from which notwithstanding, and that of Aaron, were probably occasioned the fables of all the rest. For that of Moses must needs be famous unto the Agyptians; and that of Aaron unto many other Nations; as being preserved in the Ark, until the destruction of the Temple built by Solomon.

opening of a book, and letting fall a staff; which notwithstanding are ancient fregments of Pagan divinations. The first an imitation of Sorter Homekick, or Virgitiana, drawing determinations from verses casually becurring. The same was practiced by Severus, who entertained ominous hopes of the Empire, from that verse in Virgit, Tu regere imperio popular Romane memento; and Cordianus who reigned but sew dayes was discouraged by another, that is, Ostendunt terris hunc tantum sata, nee ultra esse sinuant. Not was this only performed in heather Authors, but upon the sacred text of Scripture, as Gregorius Turonensis trach lest some account and as the practice of the Emperous Heruslius, before his Expedition upon and as the practice of the Emperous Heruslius, before his Expedition upon

Asia minor, is delivered by Cedrenus ...

E 74, 24.

As for the Divination or decision from the staff; it is an Augurialite. lique, and the practife thereof is accused by God himself; My people ask counsel of their flocks, and their flaff declareth unto them. Of this kind of Rhabdomanty was that practifed by Nabuchadopozor in that Caldean miscellany, delivered by Exekiel; the King of Baylon Rood at the parting of the way, at the head of two wayes to tile divination, he made his arrows bright, he confulted with Images, he looked in the Liver; at the right hand were the divinations of Fernsalem. That is, as Estim expounded it, the left way leading unto Rabbab, the chief City of the Ammonites, and the right unto Jerufalem, he consulted Idols and enterils, he threw up a bundle of arrows to fee which way they would light; and falling on the right hand he marched towards For ufalem. A like way of Belomancy or Divination by arrows hath been in request with Southing, Alanes, Germans, with the Africans and Turks of Algier. But of another nature was that which was practifed by Elifha, when by an arrow that from an Eastern window, he pre-fignified the destruction of Sprie; or when according unto the three fireaks of Joalh, wich in arrow upon the ground, he foretold the number of his tyl ctories in For thereby the spirit of God particular'd the same; and determined the stroaks of the

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King, unto three, which the hopes of the Prophet expected in twice that

8. We cannot omit to observe, the tenacity of ancient customs, in the nominal observation of the several dayes of the week, according to Dion Callin, Genisle and Pagan appellations : for the Original is very high, and as lib 17. old as the ancient Agyptians, who named the same according to the seven Planets, the admired states of heaven, and reputed Deities among them. Unto every one affigning a feveral day; not according to their coleftial order, or as they are disposed in heaven; but after a distefferon or mufical fourth. For beginning Saturday with Saturn, the supremest Planet, they accounted by Jupiter and Mais unto Sol, making Sunday. From Sol in like manner by Venus and Mercury unto Luna, making Munday; and so through all the rest. And the same order they confirmed by numbring the hours of the day unto swency four caccording to the natural order of the Planets For beginning to account from Saturn, Supiter, Mars, and so about unto twenty four, the next day will fall unto Sol; whence accounting twenty four, the next will happen unto Lupa, making Munday. And so with the reft, according to the account and order observed still among us.

Nativities, and Planetary hours, observe the same order, upon as witty soundations. Because by an equal interval, they make seven triangles, the bases whereof are the seven sides of a septilateral figure, described within a circle. That is, Is a figure of seven sides be described in a circle, and at the angles thereof the names of the Planets be placed, in their natural order on it is we begin with Saturn, and successively draw lines from angle to angle, that I even equicated triangles be described, whose bases are the seven sides of the septilateral figures the triangles cujus som will be made by this order. The brist being made by Saturn, Sol and apud dost. Influent, that is, Saturday, Sunday, and Munday; and so the rest in the farel chap. 11.

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But thus much is observable, that however in collectial considerations they embraced the received ordered the princes, yet did they not retain either characters, or names in compositive amongst us; but declining humane denominations, they assigned them names from some remarkable qualities; as is very observable in their red and splendent Planets, that is, of Mars and Venus. But the change of their names disparaged not the Maadim, consideration of their natures; nor did they thereby reject all memory of Nogah. these remarkable Stars; which God himself admitted in his Tabernacle, if conjecture will hold concerning the Golden Candlestick, whose shaft resembled the Sun, and six branches the Planets about it.

9. We are unwilling to enlarge concerning many other; only referring unto fober examination, what natural effects can reasonably be expected, when to prevent the Ephialtes or night-Mare we hang up an hollow stone in our stables; when for amulets against Agues we use the chips of Gallows and places of execution. When for Warts we rub our hands before the Moon, or commit any maculated part unto the touch of the dead. What truth there is in those common female Doctrines, that the first Rib of Roast Beef powderd is a peculiar remedy against Fluxes. That to urine upon earth newly cast up by a Moll, bringeth down the menses in Women. That if a Child dieth, and the neck becommeth not stiff, but for many howers remaineth Lythe and Flaccid, some other in the same house will dye not long after. That if a woman with child looketh upon a dead body, her child will be of a pale complexion, our learned Philosophers and critical Philosophers might illustrate, whose exacter performances our adventures do but solicite; mean while, I hope, they will plausibly receive our attempts, or candidly correct our misconjectures.

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Of sundry common opinions Cosmographical and Historical.

The first Discourse comprehended in several Chapters.

CHAP. I.

concerning the beginning of the World, that the time thereof is not precifely to be known, as men generally suppose: Of mens enquiries in what season or point of the Zodiack it began. That as they are generally made they are in vain, and as particularly applied uncertain. Of the division of the seasons and four quarters of the year, according to Astronomers and Physitians. That the common compute of the Ancients, and which is yet retained by most, is unreasonable and erroneous. Of some Divinations and ridiculous diductions from one part of the year to another.

And of the Providence and Wisdom of God in the site and monition of the Sun.

Oncerning the World and its temporal circumscriptions, who ever shall strictly examine both extreams, will easily The age of the perceive there is not only obscurity in its end, but its be-world not cerginning; that as its period is inscrutable, so is its nati-tainly determinable: That as it is presumption to enquire minable.

After the one, so is there no rest or satisfactory decision in

the other. And hereunto we shall more readily affent, if we examine the

informations, and take a view of the several difficulties in this point; which we shall more easily do, if we consider the different conceins of men, and duly perpend the impersections of their discoveries.

And first, The histories of the Geneiles afford us stender satisfaction, nor can they relate any story, or affix a probable point to its beginning. For some thereof (and those of the wisest amongst them) are so far from determining its beginning, that they opinion and maintain it never had any at all; as the doctrin of Epicarus, implieth, and more positively Aristotte in his books De Calo declareth. Endeavouring to confirm it with arguments of reason, and those appearingly demonstrative; where in his labours are rational, and uncontroulable upon the grounds assumed, that is, of Physical generation, and a Primary or first matter, beyond which no other hand was apprehended. But herein we remain sufficiently satisfied from Moses, and the Doctrin delivered of the Creation; that is, a production of all things out of nothing, a formation not only of matter, but of form, and a materiarion eyen of matter it self.

Others are fo far from defining the Original of the World or of man.

kind, that they have held opinions not only repugnant unto Chronology, but Philosophy; that is, that they had their beginning in the soil where they inhabited; assuming or receiving appellations conformable unto such conceits. So did the Athenians term themselves awing your of Abrigines, and in testimony thereof did wear a golden Insect on their heads:

rigines, and in testimony thereofdid wear a golden Infect on their heads: the same name is also given unto the Inlanders, or Midland inhabitants of this Island by cafar. But this is a conceit answerable unto the generation of the Giants; notadmittable in Philosophy, much less in Divinity, which distinctly informeth we are all the feed of Adam, that the whole world perished unto eight persons before the flood, and was after peopled by the Colonies of the fons of Nonh, There was therefore never Antechthon, or man arising from the earth but Adam; for the Woman being formed out of the rib, was once removed from earth, and framed from that Element under incarnation. And so although her production were not by copulation, yet was it in a manner feminal: For it in every part from whence the feed doth flow, there be contained the Idea of the whole; there was a feminality and contracted Adam in the rib, which by the information of a loul, was individuated into Eve And therefore this conceit applied unto the Original of man, and the beginning of the world, is more justly appropriable unto its end. For

Others have been so blind in deducing the Original of things, or delivering their own beginnings, that when it hath fallen into controversie, they have not recurred unto Chronologie or the Records of time: but betaken themselves unto probabilities, and the conjecturalities of Philo-

then indeed men shall rise out of the earth: the graves shall shoot up their concealed seeds, and in that great Autumn, men shall spring up,

and awake from their Chaos again.

Why the Ashenians did wear a golden Infect upon their head. Bo

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lophy. Thus when the two ancient Nations, Egyptians, and Scythians contended for antiquity, the Egyptians pleaded their antiquity from the fertility of their foil, inferring that men there first inhabited, where they Diodorwere with most facility sustained; and such a land did they conceive was

The Scythians, although a cold and heavier Nation urged more acutely, deducing their arguments from the two active Elements and Principles of all things, Fire and Water. For if of all things there was first an union, and that Fire over-ruled the rest: surely that part of earth which was coldest, would first get free, and afford a place of habitation. But if all the earth were first involved in Water, those parts would furely fift appear, which were most high, and of most elevated situation, and fuch was theirs. These reasons carried indeed the antiquity from the Egyptians, but confirmed it not in the Scythians: for as Herodotus relateth from Pargitams, their first King unto Darius, they accounted but

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As for the Egyptians they invented another way of trial; for as the fame Author relateth, Pfammitichus their King attempted this decision That men by a new and unknown experiment, bringing up two Infants with Goats, freak not by and where they never heard the voice of man; concluding that to be the flind, but by ancientest Nation, whose language they should first deliver. But here- infruction in he forgot that speech was by instruction not instinct, by imitation, and imitation. not by nature, that men do speak in some kind but like Parrets, and as they are instructed, that is, in simple terms and words, expressing the open notions of things; which the second act of Reason compoundeth into propositions, and the last into Syllogisms and Forms of ratiocination. And how loever the account of Manethon the Egyptian Priest run very high, and it be evident that Mizraim peopled that Country (whose name with the Hebrews it beareth unto this day) and there be many things of great antiquity related in Holy Scripture, yet was their exact account not very ancient; for Ptolomy their Country-man beginning his Astronomical compute no higher than Nabonasser, who is conceiwed by some the same with Salmanaffer. As for the argument deduced from the Fertility of the foil, duly enquired, it rather overthroweth than promoteth their antiquity; if that Country whose Fertility they so advance, was in ancient times no firm or open land, but some vast lake or part of the Sea, and became a gained ground by the mud and limous matter brought down by the River Nilus, which fetled by degrees into a firm land. According as is expressed by strabo, and more at large by Herodotus, both from the Egyptian tradition and probable inducements from reason, called therefore fluvii donum, an accession of earth, or tract of land acquired by the River.

Lastly, Some indeed there are, who have kept Records of time, and aconsiderable duration, yet do the exactest thereof afford no satisfaction

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concerning the beginning of the world, or any way point out the time of its creation. The most authentick Records and best approved antiquity are those of the (baldeans; yet in the time of Alexander the Great, they attained not so high as the flood. For as Simplicius relateth, Ariso, the required of Calisthenes, who accompanied that Worthy in his Expedition, that at his arrive at Babylon, he would enquire of the antiquity of their Records; and those upon compute he found to amount unto 1903 years; which account notwithstanding ariseth no higher than 95 years atter the flood. The Arcadians I confess, were esteemed of great antiquity, and it was usually said they were before the Moon, according unto that of Seneca, Sydns post veteres Arcades editum; and that of Ovid, Lunigens prior illa suit. But this as Censorinus observeth, must not be taken grossy, as though they were existent before that Luminary; but were so esteemed, because they observed a set course of year, before the Greek conformed their year unto the course and motion of the Moon.

Thus the Heathens affording no fatisfaction herein, they are most likely to manifest this truth, who have been acquainted with Holy Scrip. ture, and the facred Chronology delivered by Moses, who distinctly sets down this account, computing by certain intervails, by memorable Aras, Epoches, or terms of time. As from the Creation unto the flood, from thence unto Abraham, from Abraham unto the departure from Egypt, &c. Now in this number have only been Samaritans, Tems and Christians. For the Jews they agree not in their accounts, as Bodine in his method of History hath observed out of Baal seder, Rabbi Nasjom, Gersom, and others; in whose compute the age of the World is not yet 5400 years. The same is more evidently observable from the two most learned fews, Philo and fosephus; who very much differ in the accounts of time, and variously fum up these Intervails assented unto by all. Thus Thile from the departure out of Egypt unto the building of the Temple, accounts but 920 years, but fosephus fets down 1062. Philo from the building of the Temple to its destruction 440. Tosephus 470: Philo from the Creation to the Destruction of the Temple 3373. but Tosephu Philo from the Deluge to the Destruction of the Temple 1718. but fosephus 1913. In which Computes there are manifest disparities, and fuch as much divide the concordance and harmony of times.

For the Samaritans; their account is different from these or any others; for they account from the Creation to the Deluge, but 1302 years; which cometh to pass upon the different account of the ages of the Patriarks set down when they begat children. For whereas the Hebren, Greek and Latin texts account Jared 162 when he begat Enoch, they account but 62, and so in others. Now the Samaritans were no incompetent Judges of times and the Chronology thereof; for they embraced the five books of Moses, and as it seemeth, preserved the Text with far more integrity then the Jens; who as Tertullian, Chrysosom, and others ob-

Different accounts upon Scripture concerning the Age of the World,

ferve, did feveral wayes corrupt the same, especially in passages concerning the prophefies of Christ; So that as Jerom professeth, in his tranflation he was fain sometime to relieve himself by the samaritan Pentateuch; as amongst others in that Text, Deuteronomy 27. Maledictus omnis qui non permanserit in omnibus que scripta sunt in libro Legis. From hence Saint Paul inferreth there is no justification by the Law, and urgeth the Text according to the Septuagint. Now the Jews to afford a Gal to latitude unto themselves, in their copies expunged the word or Syncategorematical term omnis : wherein lieth the strength of the Law, and of the Apostles argument; but the Samaritan Bible retained it right, and answerable unto what the Apostle had urged.

As for Christians from whom we should expect the exactest and most concurring account, there is also in them a manifest disagreement, and fuch as is not eafily reconciled. For first, the Latins accord not in their account: to omit the calculation of the Ancients, of Austin, Bede, and others, the Chronology of the Moderns doth manifestly diffent. 70. fephus Scaliger, whom Helvicus feems to follow, accounts the Creation in 765 of the Julian period; and from thence unto the Nativity of our Saviour alloweth 3947 years; But Dionyfius Petavius a learned Chronologer diffenteth from this compute almost 40 years; placing the Creation in the 730 of the Julian period, and from thence unto the Incarnation

accounteth 3983 years.

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For the Greeks; their accounts are more anomalous; for if we recur unto ancient computes; we shall find that Clemens Alexandrinus, an ancient Father and Praceptor unto Origen, accounted from the Creation unto our Saviour, 5664 years; for in the first of his Stromaticks, he collecteth the time from Adam unto the death of Commodus to be 5858 years; now the death of Commodus he placeth in the year after Christ 194, which number deducted from the former, there remaineth 5664. Theophilus Bishop of Antioch accounteth unto the Nativity of Christ 1515, deduceable from the like way of compute, for in his first book ad Antolychum, he accounteth from Adam unto Aurelius Verus 5695 years; now that Emperour died in the year of our Lord 180, which deducted from the former fum, there remaineth 5515. Inlins Africanus an ancient Chronologer, accounteth somewhat less, that is, 5500. Eusebius, Orofius and others diffent not much from this, but all exceed five thoufand.

The latter compute of the Greeks, as Petavius observeth, hath been reduced unto two or three accounts. The first accounts unto our 'aviour 5501, and this hath been observed by Nicephorus, Theophanes, and Maximus. The other accounts 5509; and this of all at present is generally By what acreceived by the Church of Constantinople, observed also by the Moscovite, count the as I have seen in the date of the Emperors letters; wherein this year of lasted 7154 ours 1645 is from the year of the world 7154, which doth exactly agree unto years.

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this last account 5509, for if unto that sum be added 1645, the product will be 7154, by this Chronology are many Greek Authors to be under flood; and thus is Martinus Crusius to be made out, when in hs Turcogrecian history he delivers, the City of Conft. ntinople was taken by the Turks in the year stas that is, 6961. Now according unto these Chro. nologists, the Prophecy of Elias the Rabbin, so much in request, with the Jews, and in some credit also with Christians, that the world should laft but fix thousand years; unto these I say, it hath been long and out of memory disproved, for the Sabbatical and 7000 year wherein the world should end (as did the Creation on the seventh day) unto them is long ago expired; they are proceeding in the eight thousand year, and numbers exceeding these days which men have made the types and shadows of thefe. But certainly what Marcus Leo the Jew conceiveth of the end of the heavens, exceedeth the account of all that ever shall be; for though he conceiveth the Elemental frame shall end in the Seventh or Sabbatical Millenary, yet cannot he opinion the heavens and more durable part of the Creation shall perish before seven times seven, or 49, that is, the Quadrant of the other seven, and perfect Jubilee of thousands.

Thus may we observe the difference and wide difference of mens opinions, and thereby the great incertainty in this establishment. The He. brews not only diffenting from the Samaritans, the Latins from the Greeks, but every one from another. Insomuch that all can be in the right it is impossible; that any one is so, not with assurance determinable. And therefore as Petavius confesseth, to effect the same exactly without inspiration it is impossible, and beyond the Arithmetick of any but God himself. And therefore also what satisfaction may be obtained from those violent disputes, and eager enquirers in what day of the month the world began either of March or October; likewise in what face or position of the Moon, whether at the prime or full, or soon after, let

our second and serious considerations determine.

The cause of counts about the age of the world.

Now the reason and ground of this differt, is the unhappy difference so different ac- between the Greek and Hebrew Editions of the Bible, for unto these two Languages have all Translations conformed; the holy Scripture being first delivered in Hebrew, and first translated into Greek. For the Hebrew; it seems the primitive and surest text to rely on, and to preserve the same entire and uncorrupt there hath been used the highest caution humanity could invent. For as R. Ben. Maimon hath declared, if in the copying thereof one letter were written twice, or if one letter but touched another, that copy was not admitted into their Synagogues, but only allowable to be read in Schools and private families. Neither were they careful only in the exact number of their Sections of the Law, but had also the curiosity to number every word, and affixed the account unto their feveral books. Notwithstanding all which, divers corruptions enfued, and several deprayations slipt in, arising from many and manifeft

Corruption even in the Hebrew Text of the Bible.

nitelf grounds, as hath been exactly noted by Morinus in his preface unto

the Septuagint.

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Asfor the Septuagint, it is the first and most ancient Translation; and of greater antiquity than the Chaldce vertion; occasioned by the request of Ptelomens Philadelphus King of Egypt, for the ornament of his memomble Library; unto whom the high Priest addressed fix Jews out of every Tribe, which amounteth unto 72; and by these was effected that Tranflation we usually term the Septuagine, or Translation of seventy. Which The Credie name, however it obtain from the number of their persons, yet in ref- of the Sectuanet of one common Spirit, it was the Translation but as it were of one gint translatiman; if as the story relateth, although they were fet apart and severed on from each other, yet were their Translations found to agree in every Ariffest ad point, according as is related by Philo and Josephus; although we find de 72 interprenot the same in Ariftens, who hath expresly treated thereof. But of the sibus. Greek compute there have passed some learned differtations not many years ago, wherein the learned Ifacius Vossius makes the nativity of the world to anticipate the common account one thousand four hundred and forty years.

This Translation in ancient times was of great authority, by this mamy of the Heathens received some notions of the Creation and the mighty. works of God; This in express terms is often followed by the Evangelifts, by the Apostles, and by our Saviour himself in the quotations of the Old Testament, This for many years was used by the Jews themfelver, that is fuch as did Hellenize and dispersedly dwelt out of Palestine with the Greeks; and this also the succeeding Christians and ancient Fathers observed; although there succeeded other Greek versions, that is, of Aquila, Theodofins and Symmachus; for the Latin translation of Jerom called now the Vulgar, was about 800 years after the Septuagint; although there was also a Latin translation before, called the Italick verfion. Which was after lost upon the general reception of the translation of Saint, ferom. Which not withfranding (as he himself acknowledgeth) Profas. in Pas had been needless, if the Septuagint copys had remained pure, and as they ralipom. were first translated. But, (beside that different copys were used, that Alexandria and Egypt followed the copy of Helzehius, Antioch and Conflantinople that of Lucian the Martyr, and others that of Origen) the Septuagint was much depraved, not only from the errors of Scribes, and the emergent corruptions of time, but malicious contrivance of the Jews; Graci textus as Justin Martyr hath declared, in his learned dialogue with Tryphon, finceritate. and Morinius hath learnedly thewn from many confirmations.

Whatfoever Interpretations there have been fince, have been especially effected with reference unto these, that is, the Greek and Hebrew text, the Translators sometimes following the one, sometimes adhering unto theother, according as they found them consonant unto truth, or most correspondent unto the rules of faith. Now however it cometh to pass,

thele two are very different in the enumeration of Genealogies, and parts cular accounts of time; for in the second intervail, that is, between the Flood and Abraham, there is by the Septuagint introduced one Cainan to be the son of Arphaxad and father of Salah; whereas in the Hebrew there is no mention of such a person, but Arphaxad is set down to be the father of Salab. But in the first intervail, that is, from the Creation unto the Flood, their disagreement is more confiderable; for therein the Greek exceedeth the Hebrew, and common account almost 600 years. And 'tis indeed a thing not very strange, to be at the difference of a third part, in fo large and collective an account, if we confider how differently they are fet forth in minor and less mistakable numbers. So in the Prophesic of Jonah, both in the Hebrew and Latin text, it is said. Yet forty dayes and Ninery shall be overthrown: But the Septuaging faith plainly, and that in letters at length, reas inieges, that is, yet three dayes and Ninevy shall be destroyed. Which is a difference not newly crept in, but an observation very ancient, discussed by Austin and Theo. doret, and was conceived an error committed by the Scribe. Men therefore have raifed different computes of time, according as they have followed their different texts; and so have left the history of times far more

perplexed than Chronology hath reduced.

Again, However the texts were plain, and might in their numerations agree, yet were there no small difficulty to fet down a determinable Chronology, or establish from whence any fixed point of time. For the doubts concerning the time of the Judges are inexplicable; that of the Reigns and succession of Kings is as perplexed; it being uncertain whether the years both of their lives and reigns ought to be taken as compleat, or in their beginning and but current accounts. Nor is it unreasonable to make some doubt whether in the first ages and long lives of our fathers, Mofes doth not sometime account by full and round numbers, whereas strictly taken they might be some few years above or under; as in the age of Noah, it is delivered to be just five hundred when he begat sem; whereas perhaps he might be fomewhat above or below that round and compleat number. For the same way of speech is usual in divers other expressions: Thus do we say the Septuagint, and using the full and articulate number, do write the Translation of Seventy; whereas we have shewn before, the precise number was Seventy two. Sois it faid that Christ was three days in the grave; according to that of Mathen, as Jonas was three days and three nights in the Whales belly, for shall the Son of man be three days and three nights in the heart of the earth: which notwithstanding must be taken Synecdochically; or by understanding a part for an whole day; for he remained but two nights in the grave; for he was buried in the afternoon of the first day; and arose very early in the morning on the third; that is; he was interred in the eye of the Sabbath, and arose the morning after in oran making haros

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Moreover although the number of years be determined and rightly understood, and there be without doubt a certain truth herein; yet the text speaking obscurely or dubiously, there is oft-times no slender difficulty at what point to begin or terminate the account. So when it is faid Exed, 12, the fojourning of the children of Ifrael who dwelt in Egypt was 430 years, it cannot be taken firicily, and from their first arrival into Egypt, for their habitation in that land was far less; but the account must begin from the Covenant of God with Abraham, and must also comprehend their fe journ in the land of Canaan, according as is expressed, Gal. 3. The Covenant that was confirmed before of God in Chrift, the Law which was 430 years after cannot difanul. Thus hath it also happened in the account of the 70 years of their captivity, according to that of firemy, This whole land shall be a desolation, and these Nations shall Chap. 20. ferve the King of Babylon 70 years. Now where to begin or end this comoute, arifeth no small difficulties; for there were three remarkable captivities, and deportations of the Jews. The first was in the third or fourth year of foachim, and first of Nabuchodonozor, when Daniel was carriedaway; the second in the reign of leconiah, and the eighth year of the fame King; the third and most deplorable to the reign of Zedechias, and in the nineteenth year of Nabuchodonezor, whereat both the Temple and City were burned. Now fuch is the different conceit of these times, that men have computed from all; but the probablest account and most concordancunto the intention of leremy, is from the first of Nabuchodonozor unto the first of King Cyrus over Babylon; although the Prophet Zachary Chap.1.12. accounter from the laft. O Lord of hofts, How Long! Will thou not have mercy on Ierufalem, against which thou hast had indignation these threescore and ten years? for he maketh this expostulation in the second year of Daring Histaspes, wherein he prophesied, which is about eighteen years in account after the other.

Thus also although there be a certain truth therein, yet is there no easie doubt concerning the feventy weeks, or feventy times feven years of Dani- The difficul-1; whether they have reference unto the nativity or passion of our Savi- ties of Daniels our, and especially from whence, or what point of time they are to be 70 Weeks, computed. For thus is it delivered by the Angel Gabriel: Sevency weeks are determined upon the people; and again in the following verse: Know therefore and understand, that from the going forth of the Commandment to reftore and to build Ierufalem unto the Meffiasthe Prince, shall be feven weeks, and threescore and two weeks, the street shall be built again, and the wall even in troublesome times; and after threescore and two weeks shall Messiah be cut off. Now the going out of the Commandment to build the City, being the point from whence to compute, there is no flender controversie when to begin. For there are no less then four several Edicts to this effect, the one in the first year of Cyrus, the other in the second of Darius, the third and fourth in the seventh, and in the twenticth of Artaxerxes Longimanus; although as Petavius accounteth, it heft ac-

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Of our Bleff. Saviours age at his Passion. cordethunto the twenty year of Artaxerxes, from whence webemiah deriveth his Commission. Now that computes are made uncertainly with reference unto Christ, it is no wonder, since I perceive the time of his Nativity is in controversie, and no less his age at his Passion, For Clemens and Tertullian conceive he suffered at thirty; but Ireness a Father neerer his time, is further off in his account, that is, between forty and fifty.

Longomontanus a late Aftionomer, endeavours to discover this secret from Astronomical grounds, that is, the Apogeum of the Sun; conceiving the Excentricity invariable, and the Apogeum yearly to move one sequence, two seconds, fifty thirds, &c. Wherefore if in the time of Hipparchus, that is, in the year of the Inlian period 4557 it was in the fifth degree of Gemini, and in the daies of Tycho Brahe, that is in the year of our Loid 1588, or of the world 5554, the same was removed unto the fifth degree of Cancer; by the proportion of its motion, it was at the Creation first in the beginning of Aries, and the Perigeum or nearest point in Libra. But this conceit how ingenious or subtile sover; is not of satisfaction; it being not determinable, or yet agreed in what time precisely

De Dostrina

the Apogeum absolveth one degree, as Petavius hath also delivered. Latily, However these or other difficulties intervene, and that we can. not fatisfie our felves in the exact compute of time, yet may we fit down with the common and usual account ; nor are these differences derogatory unto the Advent or Passion of Christ, unto which indeed they all do seem to point, for the Prophecies concerning our Saviour were indefinitely delivered before that of Daniel; fo was that pronounced unto Eve in paradile, that after of Balaam, those of Isaiahand the Prophets, and that memorable one of Iacob, the Scepter shall not depart from Ifrael untill Shilo come; which time notwithstanding it did not define at all. In what year therefore foever, either from the destruction of the Temple, from there-edifying thereof, from the flood, or from the Creation he appeared, certain itis, that in the fulness of time he came, When he therefore came is not so confiderable, as that he is come: in the one there is consolation, in the other no fatisfaction. The greater Quere is, when he will come again; and yet indeed it is no Quere at all: for that is never to be known, and therefore vainly enquired: 'cisa professed and authentick obscurity, unknown to all but to the omniscience of the Almighty. Certainly the ends of things are wrapt up in the hands of God, he that undertakes the knowledge thereof, forgets his own beginning, and disclaims his principles of earth. No man knows the end of the world, nor affuredly of any thing in it : God feesit, because unto his Eternity it is present; he knoweth the ends of us, but not of himfel: and because he knows not this, he knoweth all things, and his knowledge is endles, even in the object of himself.

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CHAP. II.

of mens Enquiries in what season or Point of the Zodiack it began, that as they are generally made, they are in vain, and as particularly, uncertain.

Oncerning the Seasons, that is, the quarters of the year, some are ready to enquire, others to determine, in what feafon, whether in the Autumn , Spring , Winter or Summer the World had its beginning. Wherein we affirm, that as the question is generally, and in respect of the whole earth proposed, it is with manifest injury unto reason in any particu- The world behardetermined; because when ever the world had its beginning it was cre- gan in ull the ated in all these four. For, as we have elsewhere delivered, whatsoever four quarters fign the Sun possesseth (whose recess or vicinity defineth the quarters of the of the year. year) those four seasons were actually existent; it being the nature of that Luminary to diftinguish the several seasons of the year; all which it maketh at one time in the whole earth, and successively in any part thereof. Thus if we suppose the Sun created in Libra, in which sign unto some it maketh Autumn; at the same time it had been Winter unto the Northernpole, for unto them at that time the Sun beginneth to be invisible, and to thewit felf again unto the Pole of the South. Unto the position of a right Sphere or directly under the Aquator, it had been Summer; for unto that figuation the Sun is at that time vertical. Unto the latitude of Capricorn, or the Winter Solflice it had been Spring ; for unto that position it hadbeen in a middle point, and that of afcent, or approximation, but unto the latitude of Cancer or the Summer Solftice it had been Autumn ; for then had it been placed in a middle point, and that of descent, or clongation.

And if we shall take it literally what Moses described popularly, this was also the constitution of the first day. For when it was evening unto one longitude, it was morning unto another; when night unto one, day unto another. And therefore that question, whether our Saviour shall comeagain in the twilight (as is conceived he arose) or whether he shall come upon us in the night, according to the comperison of a thief, or the femil tradition, that he willcome about the time of their departure out of egypt, when they eat the Passover, and the Angel pasted by the doors of their houses; this Quere I say needeth not further dispute. For if the earth be almost every where inhabited, and his coming (as D vinity affirmed) must needs be unto all; then must the time of his appearance be both in the day and night. For if unto Ferusalem, or what part of the world soever he shall appear in the night, at the same time unto the Antipodes, it must be day; ifewilight unto them, broad day unto the Indians;

Nexmusegy.

if noon unto them, yet night unto the Americans; and so with variety according unto various habitations, or different positions of the Sphere, as will be easily conceived by those who understand the affections of different habitations, and the conditions of Antaci, Pariaci, and Antipodes. And so although he appear in the night, yet may the day of Judgement of Dooms. day well retain that name; for that impliet hone revolution of the Sun, which maketh the day and night, and that one natural day. And yet to speak strictly, if (as the Apostle affirmeth) we shall be changed in the twinckling of an eye (and as the Schools determine) the destruction of the world shall not be successive but in an instant; we cannot properly apply thereto the usual distinctions of time; called that twelve hours, which admits not the parts thereof, or use at all the name of time, when the nature thereof shall perish.

But if the enquiry be made unto a particular place, and the question determined unto some certain Meridian; as namely, unto Mesopotamia wherein the seat of paradice is presumed, the Query becomes more reasonable, and is indeed in nature also determinable. Yet positively to define that season, there is no slender difficulty; for some contend that it began in the Spring; as (beside Eusebius, Ambrose, Bede, and Theodoret) some sew years past Henrico Philippi in his Chronology of the Scripture, Others are altogether for Autumn; and from hence do our Chronologen commence their compute; as may be observed in Helvieus, Jo. Scaliger,

Calvifing, and Petaving.

CHAP. III.

of the Divisions of the seasons and four Quarters of the year, according unto Astronomers and Physicians: that the common compute of the Ancients, and which is still retained by some is very questionable.

As for the divisions of the year, and the quartering out this remarkable standard of time; there have passed especially two distinctions; the first in frequent use with Astronomers, according to the cardinal interasections of the Zodiack, that is, the two Aquinoctials and both the Solstiial points; defining that time to be the Spring of the year, wherein the San doth pass from the Aquinox of Aries unto the Solstice of Cancer; the time between the Solstice and the Aquinox of Libra, Summer; from thence unto the Solstice of Capricornus, Autumn; and from thence unto the Aquinox of Aries again, Winter. Now this division although it be regular and equal, is not universal; for it in includeth not those latitudes

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which have the featons of the year double; as have the inhabitants under the Aquator, or elfe between the Tropicks. For unto them the Sun is Between the vertical twice a year, making two diffinet Summers in the different points Tropicks two ofverticality. Sounto those which live under the Equator, when the Summersing Sun is in the Aquinox it is Summer, in which points it maketh Spring or Autunin unto us; and unto them it is also Winter when the Sun is in either Tropick; whereas unto those habitations, which are between the Tropicks and the Æquator.

A fecond and more fensible division there is observed by Hippocrates. and most of the ancient Greeks, according to the rising and setting of divers stars; dividing the year, and establishing the account of seasons from usual alterations, and fensible mutations in the air, discovered upon the rifing and fetting of those stars, accounting the Spring from the Æquinoxial point of Aries; from the rifing of the Pleiades, or the several stars on the back of Taurus, Summer; from the rifing of Arcturus, a star between the thighs of Bootes, Autumn; and from the fetting of the Pleiades, Winter. Of these divisions because they were unequal, they were fain to subdivide the two larger portions, that is of the Summer and Winter quarters; the first part of the Summer they named Hegs, the second unto the rifing of the Dog-star, "es, from thence unto the fetting of Arcturus, imies. The Winter they divided also into three pairs; the first part, or that of feed time they named ompile, the middle or proper Winter, xumin, the last, which was their planting or grafting time or chias. This way of division was in former ages received, is very often mentioned in Poets, translated from one Nation to another; from the Greeks unto the Latines as is received by good Authors; and delivered by Physicians, even unto our times.

Now of these two, although the first in some latitude may be retained. yet is not the other in any to be admitted. For in regard of time (as we elsewhere declare) the stars do vary their longitudes, and confequently the times of their afcension and descension. That star which is the term of numeration, or point from whence we commence the account, aftering his fiteandlongitude in process of time, and removing from West to East, almost one degree in the space of 72 years, so that the same star, since the age of Hippocrates who used this account, is removed in consequentia about 27 degrees. Which difference of their longitudes, doth much divertifie the times of their ascents, and rendereth the account unstable which shall proceed thereby.

Again, In regard of different latitudes, this cannot be a fetled rule, or reasonably applied unto many Nations. For whereas the setting of the Pleiades or feven stars, is defigned the term of Autumn, and the beginning of Winter; unto some latitudes these stars do never set, as unto all beyond 67 degrees. And if in feveral and far diftant latitudes we observe the same flar as a common term of account unto both, we shall fall upon an unexpected, but an unsufferable absurdicy; and by the same account it will be Sum-

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mer unto us in the North, before it be so unto those, which unto us are Southward, and many degrees approaching nearer the Sun. For if we consult the Doctrine of the sphere, and observe the ascension of the Pleiades, which maketh the beginning of Summer, we shall discover that in the latitude of 40. These stars arise in the 16 degree of Taurus; but in the latitude of 50, they ascend in the eleventh degree of the same sign, that is, 5 dayes sooner; so thall it be Summer unto London, before it be unto Toledo, and

begin to scorch in England, before it grow hot in Spain.

This is therefore no general way of compute, nor reasonable to be derived from one Nation unto another; the defect of which consideration hath caused divers errors in Latine poets, translating these expressions from the Greeks; and many difficulties even in the Greeks themselves; which living in divers latitudes, yet observed the same compute. So that to make them cut, we are sain to use distinctions; sometime computing cosmically what they intended heliacally: and sometime in the same expression accounting the rising heliacally, the setting cosmically. Otherwise it will be hardly made out, what is delivered by approved Authors; and is an observation very considerable unto those which meet with such expressions, as they are very frequent in the poets of elder times, especially Hesiod, Aratus, Virgil, Ovid, Manillius; and Authors Geoponical, or which have treated dere rustica, as Constantine, Marcus Cato, Columella, Palladius and Varro.

Lastly, The absurdity in making common unto many Nations those considerations whose verity is but particular unto some, will more evidently appear, if we examine the Rules and Precepts of some one climate, and fall upon consideration with what incongruity they are transferrible unto others,

Thus is it advised by Hefod.

Pleiadibus Atlante natis orientibus Incipe messem, Arationem vero occidentibus

Implying hereby the Heliacal ascent and Cosmical descent of those stars. Now herein he setteth down a rule to begin harvest at the arise of the pleiades; which in his time was in the beginning of May. This indeed was consonant unto the clime wherein he lived, and their harvest began about that season; but is not appliable unto our own, for therein we are so far from expecting an harvest, that our Barley-seed is not ended. Again, correspondent unto the rule of Hessiad, Virgil affordeth another,

Ante tibi Eoa Atlantides abscondantur, Debita quam sulcis committas semina.

Understanding hereby their Cosmical descent, or their setting when the Sun ariseth, and not their I bliacal obscuration, or their inclusion in the lustre of the Sun, as Servius upon this place would have it; for at that time these stars are many signs removed from that luminary. Now herein he strictly adviseth, not to begin to sow before the setting of these stars; which not with standing without in jury to agriculture, cannot be observed in England; for they set unto us about the 12 of November, when our Seedtime is almost ended.

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And this diverfity of clime and coleffial observations, precisely observed unto certain stars and moneths, hath not only overthrown the deductions of one Nation to another, but hath perturbed the observation of festivities and flatary Solemnicies, even with the Jews themselves. For unto them it was commanded that at their entrance into the land of Canaan, in the fourteenth of the fift moneth (that is Abib or Nifan which is Spring with us) they should observe the celebration of the Passover; and on the morrow after, which is the fifteenth day, the feast of unleavened bread; and in the fixteenth of the same moneth, that they should offer the first sheaf of the harvest. Now all this was feasible and of an easie possibility in the land of Canaan, or latitude of Jerusalem; for so it is observed by several Authors in later times; and is also testified by holy Scripture in times very far before. For when the children of Ifrael paffed the river fordan, it is deliver- Iofh. ed by way of parenthefis, that the river overfloweth its banks in the time of harvest; which is conceived the time wherein they passed; and it is after delivered, that in the fourteenth day they celebrated the Passover: which Iosh, s. according to the Law of Moses was to be observed in the first moneth, or moneth of Abib.

And therefore it is no wonder, what is related by Luke, that the Difciples upon the Deuter oproton, as they paffed by, plucked the ears of corn. What the Sab For the Deuteroproton or fecond first Sabbath, was the first Sabbath after baton Deutethe Deutera or second of the Passover, which was the fixteenth of Nifan roptoton, Luk. or Abib. And this is also evidenced from the received construction of o. was. the first and latter rain. I will give you the rain of your land in his Deut. 11. due season, the first rain and the latter rain. For the first rain fell upon the feed-time about October, and was to make the feed to root, the latter was to fill the ear, and fell in Abid or March, the fielt moneth : according as is expressed. And he will cause to come down for you the rain, locl 2, the former rain and the latter rain in the first moneth; that is the moneth of Abib wherein the Passover was observed. This was the Law of Mofer, and this in the land of Canaan was well observed, according to the first institution: but fince their dispersion and habitation in Countries. whose constitutions admit not such tempestivi y of harvests; and many not before the latter end of Summer; notwithstanding the advantage of their Lunary account, and intercalary moneth Veader, affixed unto the beginning of the year, there will be found a great disparity in their observations; nor can they ftrictly and at the same season with their foresathers observe the commands of God.

To add yet further, those Geoponical rules and precepts of Agriculture which are delivered by divers Authors, are not to be generally received; but respectively understood unto climes whereto they are determined. For whereas one adviseth to sow this or that grain at one season, a second to set this or that at another, it must be conceived relatively, and every Nation must have its Country Farm; for herein we may observe a manifest

manifest and visible difference, not only in the seasons of harvest, but in the grains themselves. For with us Barley harvest is made after wheat harvest but with the Israelites and Agyptians it was otherwise; so is it expressed by way of priority, Ruth the 2. So Ruth kept sast by the maidens of Boaz to glean unto the end of Birley-harvest and of Wheat-harvest, which in the plague of hayl in Agypt is more plainly delivered, Exod.9. And the Flax and the Barley were smitten, for the Barley was in the ear and the Flax was bolled, but the Wheat and the Rye were not smitten, for they were not sgrown up.

And thus we see the account established upon the arise or descent of the stars can be no reasonable rule unto distant Nations at all, and by reason of their retrogression but temporary unto any one. Nor must these respective expressions be entertained in absolute considerations; for so distinct is the relation, and so artificial the habitude of this inseriour globe unto the superiour, and even of one thing in each unto the other: that general rules are dangerous; and applications most safe that run with security of circumstance. Which rightly to effect, is beyond the subtlety of sense and requires

the artifice of reason.

CHAP. IV.

Of some computation of days and diductions of one part of the year unto another.

That the days decrease and increase unequally, For the days increase or decrease according to the declination of the Sun, that is, its deviation Northward or Southward from the educations, it is right and greater, near the Solstices more oblique and lesser. So from the eleventh of March the vernal Æquinox, unto the eleventh of April the Sun declination to the North twelve degrees; from the eleventh of April unto the eventh of March the vernal Æquinox, unto the eleventh of April unto the eleventh of May but eight, from thence unto the fifteenth of June, or the Summer Solstice but three and a half: all which make twenty two degrees and an half, the greatest declination of the Sun.

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And this inequality in the declination of the Sun in the Zodiack or line of life, is correspondent unto the growth or declination of man. For ferting out from infancy we increase not equally, or regularly attain to our state or perfection : nor when we descend from our state, is our deelination equal, or carrieth us with even paces unto the grave. For as Hippocrates affirmeth, a man is hottest in the first day of his life, and coldest in the last: his natural heat setteth forth most vigorously at first: and declineth most sensibly at last. And so though the growth of man The natural end not perhaps until twenty one, yet is his stature more advanced in the proportion of first septenary than in the second, and in the second, more than in the humane third, and more in the first seven years, than in the fourteen succeeding; growth, for what stature we attain unto at seven years, we do sometimes but double, most times come short of at one and twenty. And so do we decline again: For in the latter age upon the Tropick and first descension from our folitice, we are scarce sensible of declination : but declining further, our decrement accelerates, we fet apace, and in our last days precipitate into our graves. And thus are also our progressions in the and in the womb, that is, our formation, motion, our birth or exclusion. For womb, our formation is quickly effected, our motion appeareth later, and our exclusion very long after: if that be true which Hippocrates and Avicenmehave declared, that the time of our motion is double unto that of formation, and that of exclusion treble unto that of motion. As if the Infant be formed at thirty five days, it moveth at feventy, and is born the two hundred and tenth day, that is, the seventh month; or if it receives not formation before forty five days, it moveth the ninetieth day. and is excluded in the two hundred and seventy, that is, the ninth month.

There are also certain popular prognosticks drawn from festivals in the Calender, and conceived opinions of certain days in months; fo isthere a general tradition in most parts of Europe, that inferreth the coldness of succeeding winter from the shining of the Sun upon Candlemas day, or the Purification of the Virgin Mary, according to the

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Si Sol Splendescat Maria purificante, Major erit glacies post festum quam fuit ante.

So is it usual among us to qualifie and conditionate the twelve months of the year, answerably unto the temper of the twelve days in Christmas; and to ascribe unto March certain borrowed days from April; all which men feem to believe upon annual experience of their own, and the received traditions of their fore-fathers.

Now it is manifest, and most men likewise know, that the Calenders of these computers, and the accounts of these days are very different; the Greeks diffenting from the Latins, and the Latins from each other; the one observing the Julian or ancient account, as great Britain and part

of German; the other adhering to the Gregorian or new account, as Italy, France, spain, and the united Provinces of the Netherlands. Now this later account by ten days at least anticipateth the other; to that before the one beginneth the account, the other is past it; yet in the several calculations, the same events seem true, and men with equal opinion of verity, expect and confess a confirmation from them all. Whereby is evident the Oraculous authority of tradition, and the easier seed the second of the substance, into the verity of the substance,

nor reforming upon repugnance of circumstance.

And thus may divers easily be mistaken who superstitionsly observe certain times, or fet down unto themselves an observation of unform. nate months, or dayes, or hours; As did the Egyptians, two in every month, and the Romans, the days after the Nones, Ides and Calenda And thus the Rules of Navigators must often fail, fetting down, a R bodiginus observeth, suspected and ominous days in every month, as the first and seventh of March, the fift and fixt of April, the fixt, the swelfth and fifteenth of February. For the accounts hereof in these months are very different in our days, and were different with feveral Nations in Ages past; and how strictly soever the account be made, and even by the felf-same Calender, yet is it possible that Navigators may be out. For so were the Hollanders, who passing Westward through fretum le Mayre, and compassing the Globe, upon their return into their own Country, found that they had loft a day. For if two men at the same time travel from the same place, the one Eastward, the other Westward round about the earth, and meet in the same place from whence the first set forth; it will so fall out, that he which hath moved Eastward against the diurnal motion of the Sun, by anticipating dayly fomething of its circle with his own motion, will gaine one day; but he that travelleth Westward, with the motion of the Sun, by seconding its revolution, shall lose or come short a day. And therefore also upon shele grounds that Delos was leated in the middle of the earth, it was no exact decision, because two Eagles let fly East and West by Jupiter, their meeting fell out just in the Island Delos.

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CHAP. V.

A Digression of the wisdom of God in the site and motion of the

T Y Aying thus beheld the ignorance of man in some things, his error and blindness in others, that is, in the measure of duration both of years and seasons, let us a while admire the Wisdom of God in this dillinguisher of times, and visible Deity (as some have termed it) the Sun, Which though some from its glory adore, and all for its benefits admire, we shall advance from other confiderations, and such as illustrate the artifice of its Maker. Nor do we think we can excuse heduty of our knowledg, if we only bestow the flourish of Poetry hereon, or those commendatory conceits which popularly set forth the eminency of this creature; except we ascend unto subtiler considerations, and fach as rightly understood, convincingly declare the wisdom of the Valerius de Creator, Which fince a Spanish Physitian hath begun, we will enlarge Philof. Sacr. with our deductions; and this we shall endeavour from two cosiderati-

ons; its proper fituation, and wifely ordered motion.

And first we cannot pass over his providence, in that it moveth at all: for had it stood still, and were it fixed like the earth, there had been then no distinction of times, either of day or year, of Spring, of Aurunn, of Summer, or of Winter; for these seasons are defined by the motions of the Sun; when that approacheth neare our Zenith, or vertical Point, we call it Summer, when furthest off, Winter, when in themiddle spaces, Spring or Autumn, whereas remaining in one place thele distinctions had ceased, and consequently the generation of all things depending on their viciffitudes; making in one hemisphere a perpetual Summer, in the other a deplorable and comfortless Winter. And thus had it also been continual day unto fome, and perpetual night What the naunto others; for the day is defined by the abode of the Sun above the tural day is. Horizon, and the night by its continuance below; so should we have needed another Sun, one to illustrate our Hemisphere, a second to enlighten the other; which inconvenience will enfue in what fite foever we place it, whether in the Poles, or the Aquator, or between them both; no spherical body of what bigness soever illuminating the whole sphere of another, although it illuminate something more than half of a leffer, according unto the doctrin of the Opticks.

His wisdom is again discernable, not only in that it moveth at all, and in its bare motion, but wonderful in contriving the line of its revolution; which is so prudently effected, that by a vicissitude in one body and light it fufficeth the whole earth, affording thereby a possible or plean the Earth ha furable habitation in every part thereof; and this is the line Ecliptick; bitable.

all which to effect by any other circle it had been impossible. For first, if we imagine the Sun to make his course out of the Ecliptick, and upon a line without any obliquity, let it be conceived within that Eircle, that is either on the Aquator, or else on either side: (For it we should place it either in the Meridian or Colures, beside the subversion of its course from East to West, there would ensue the like incommodities.) Now if we conceive the Sun to move between the obliquity of this Ecliptick in a line upon one side of the Aquator, then would the Sun be visible but unto one pole; that is the same which was nearest unto it. So that unto the one it would be perpetual day; unto the other perpetual night; the one would be oppressed with constant heat, the other with insufferable cold; and so the defect of alternation would utterly impugn the generation of all things; which naturally require a vicissitude of heat to their production, and no less to their increase and conservation.

But if we conceive it to move in the Aquator; first unto parallel sphere, or such as have the pole for their Zenith, it would have made neither perfect day nor night. For being in the Aquator it would interfect their Horizon, and be half above and half beneath it or rather it would have made perpetual night to both; for though in regard of the rational Horizon, which biseceth the Globe into equal parts, the Sun in the Aguator would interfed the Horizon: yet in tell pect of the fensible Horizon (which is defined by the eye) the Sun would be visible unto neither. For if as ocular witnesses report, and some also write, by reason of the convexity of the Earth, the eye of man under the Equator cannot discover both the poles; neither would the eye under the poles discover the Sun in the Aguator. Thus would their nothing frudist either near or under them: The Sun being Horizontal to the poles, and of no confiderable altitude unto parts a reasonable distance from them, Again, unto a right sphere, or such as dwell under the Æquator, although it made a difference in day and night, yet would it not make any diffination of fealons: for unto them it would be constant Summer, it being alwaies vertical, and never deflecting from them: So had there been no fructification at all, and the Countries subjected would be as unhabitable; as indeed antiquity conceived them.

Lastly, It moving thus upon the Aquator, unto what position so very although it had made a day, yet could it have made no year: for it could not have had those two motions now ascribed unto it, that is, from East to West, whereby it makes the day, and like use from West to East, whereby the year is computed. For according to received Astronomy, the poles of the Aquator are the same with those of the Primum Mobile. Now it is imp slible that on the same circle, having the same poles, both these motions from opposite terms, should be at the same time performed, all which is salved, it we allow an obliquity in his

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annual motion, and conceive aim to move upon the Poles of the Zodiack, distant from these of the world 23 degrees and an half. Thus may we differn the necessity of its obliquity, and how inconvenient its motion had been upon a circle parallel to the Aquator, or upon the Aquator it felf.

Now with what Providence this obliquity is determined, we shall perceive upon the enfuing inconveniences from any deviation. For first, if its obliquity had been less as instead of twenty three degrees, twelve or the half thereof) the vicifficude of leafons appointed for the generation of all things, would furely have been two thore; for different feafons would have hudled upon each other; and unto fome it had not been much better than if it had moved on the Aquator. But had the obliquity been greater than now it is, as double, or of 40 degrees; feveral parts of the earth had not been able to endure the disproportionable differences of seasons, occasioned by the great recess, and distance of the Sun. For unto some habitations the Summer would have been extream hot, and the Winter extream cold; likewise the Summer temperate unto some, but excessive and in extremity unto others, as unto those who should dwell under the Tropick of Cancer, as then would do some part of Spain, or ten degrees beyond, as Germany, and some part of England; who would have Summers as now the Moors of Africa. For the Sun would sometime be vertical unto them: but they would have Winters like those beyond the Artick Circle; for in that season the Sun would be removed above 80 degrees from them. Again, it would be temperate to some habitations in the Summer, but very extream in the Winter: temperate to those in two or three degrees beyond the Artick Circle, as now it is unto us; for they would be equidiffant from that Tropick, even as we are from this at present. But the Winter would be extream, the Sun being removed above an hundred degrees, and for consequently would not be visible in their Horizon, no position of sphere discovering any star distant above 90 degrees, which is the distance of every Zenith from the Horizon. And thus if the obliquity of this Circle had been less, the viciffitude of seasons had been so small as not to be distinguished; if greater, so large and disproportionable as not to be endured.

Now for its situation, although it held this Ecliptick line, yet had it been feated in any other Orb, inconveniences would enfue of condition like the former; for had it been placed in the lowest sphere of the Moon, the year would have conflited but of one month; for in that space of time it would have passed through every part of the Eeliptick: so would there have been no reasonable distinction of seasons required for the generation and fructifying of all things; contrary leafons which A competent destroy the effects of one another, fo suddenly succeeding. Besides by leasons necesthis vicinity unto the earth, its heat had been intollerable: for it (as any and why,)

many affirm) there is a different sense of heat from the different points of its proper Orb, and that in the Apogeum or highest point (which happeneth in Cancer) it is not so hot under that Tropick, on this side the Æquator, as unto the other side in the Perigeum or lowest part of the Eccentrick (which happeneth in Capricornus) surely being placed in an Orb sar lower, its heat would be unsufferable, nor needed we a fable to set the world on sire.

But had it been placed in the highest Orb, or that of the eighth sphere, there had been none but *Places* year, and a far less distinction of seasons; for one year had then been many, and according unto the slowers volution of that Orb which absolveth not his course in many thousand years, no man had lived to attain the account thereof. These are the inconveniences ensuing upon its situation in the extream orbs, and had it been placed in the middle orbs of the Planets, there would have ensued

absurdities of a middle natute unto them.

Now whether we adhere unto the hypothesis of Copernicm, affirming the earth to move, and the Sun to stand still; or whether we hold, as some of late have concluded, from the spots in the Sun, which appear and disappear again; that besides the revolution it maketh with its Orbs, it hath also a dinetical motion, and rowls upon its own Poles, whether say we affirm these or no, the illations before mentioned are not thereby infringed. We therefore conclude this contemplation, and at enot afraid to believe, it may be literally said of the wisdom of God, whatmen will have but figuratively spoken of the works of Christ; that if the wonders thereof were duly described, the whole world, that is, all within the last circumference, would not contain them. For as his Wisdom is infinite, so cannot the due expressions thereof be finite, and if the world comprise him not, neither can it comprehend the story of him.

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CHAP. VI.

Concerning the vulgar opinion, that the Earth, was slenderly peopled before the Flood.

Beside the slender consideration men of latter times do hold of the first ages, it is commonly opinioned, and at first thought generally imagined, that the earth was thinly inhabited, at least not remotely planted before the flood; whereof there being two opinions, which seem to be of some extremity, the one too largely extending, the other too narrowly contracting the populosity of those times; we shall not pass over this point without some enquiry into it.

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Now for the true enquiry thereof, the means are as obscure as the matter, which being naturally to be explored by Hiftory, Humane or Divine, receiveth thereby no small addition of obscurity. For as for humane relations, they are so fabulous in Deucations flood, that they are of little credit about Ogyges and Noahs. For the Heathens (as Varro accounteth) make three distinctions of time: the first from the beginning of the world unto the general Deluge of ogyges, they term Adelon, that is, a time not much unlike that which was before time, immanifest and unknown; because thereof there is almost nothing or very obscurely delivered : for though divers Authors have made some mention of the Deluge, as Manethon the Egyptian Priest, Xenophon de aquivocis, Fabin Pictor de Aureo seculo, Mar. Cato de originibus, and Archilochus the Greek, who introduceth also the Testimony of Moles in his fragment de temporibus: yet have they delivered no account of what preceded or went before. Josephus I confess in his Discourse against Appion induceth the antiquity of the fews unto the flood, and before from the testimony of humane Writers; infisting especially upon Maseus of Damascus, Jeronimus Egyptius, and Berosus; and confirming the long duration of their lives, not only from these, but the authority of Hefied, Erathius, Hellanicus and Agefilaus. Berofius the Chalthan Priest, writes most plainly, mentioning the City of Enos, the name of Neah and his Sons, the building of the Ark, and also the place of its landing. And Diodorus Siculus hath in his third book a paffage, which examined, advanceth as high as Adam: for the Chaldeans, faith he, derive the Original of their Aftronomy and letters forty three thousand years before the Monarchy of Alexander the Great: now the years whereby they computed the antiquity of their letters, being as Xenophon interprets to be accounted Lunary: the compute will arise unto the time of Adam. For forty three thousand Lunary years make about three thousand fix hundred thirty four years, which answereth the Chronology of time from the beginning of the world unto the raign of Alexander, as Annins of Viterbe computeth in his Comment upon Berofus,

The second space or interval of time is accounted from the flood unto the first Olympiad, that is, the year of the world 3174, which extendeth unto the days of staich the Propher, and some twenty years before the soundation of Rome: this they term Mythicon or sabulous, because the account thereof, especially of the first part, is sabulously or imperfectly delivered. Hereof some things have been briefly related by the Authors above mentioned: more particularly by Dares Phrygins, Dittys Cretensis, Herodotus, Diodorus Siculus, and Irogus Pompeius; the most samous Greek Poets lived also in this interval, as Orpheus, Linus, Musaus, Homer, Hessod; and herein are comprehended the grounds and stift inventions of Poetical sables, which were also taken up by historical Writers, preturbing the Chaldean and Egypin in Records with sabulous

additions; and confounding their names and stories, with their own in-

The third time fuceeeding until their present ages, they term Historicon, that is, such wherein matters have been more truly historisted, and may therefore be believed. Of these times also have been written Herodotus, Thucydides, Xenophon, Diodorus; and both of these and the other preceding such as have delivered universal Historics or Chronolgies; as (to omit Philo, whose Natrations concern the Hebrens) Eusebius, Julius Africanus, Orosius, Ado of Vienna, Marianus Scotus, Historia tripartita, Urspergensis, Carion, Pineda, Salian, and with us

Sir Walter Raleigh.

Now from the first hereof that most concerneth us, we have little or no assistance; the fragments and broken records hereof inforcing not at all our purpose. And although some things not usually observed, may be from thence collected, yet do they not advantage our discourse, nor any way make evident the point in hand. For the second, though it directly concerns us not, yet in regard of our last medium and some illustrations therein, we shall be constrained to make some use thereof. As for the last, it concerns us not at all; for treating of times far below us, it can no way advantage us. And though divers in this last Age have also written of the first, as all that have delivered the general accounts of time, yet are their Tractates little auxiliary unto ours, nor afford us any

light to detenebrate and clear this Truth,

As for holy Scripture and divine revelation, there may also seem therein but stender information, there being only left a brief narration hereof by Moses, and such as affords no positive determination. For the Text delivereth but two genealogies, that is, of Cain and Seth; in the line of Seth there are only ten descents, in that of Cain but seven, and those in a right line with mention of father and son; excepting that of Lameth, where is also mention of wives, sons, and a daughter. Notwithstanding if we seriously consider what is delivered therein, and what is also deducible, it will be probably declared what is by us intended, that is, the populous and ample habitation of the earth before the flood. Which we shall labour to induce not from postulates and entreated Maxims, but undeniable Principles declared in holy Scripture; that is, the length of mens lives before the flood, and the large extent of time from Creation thereunto.

We shall only first crave notice, that although in the relation of Mofes there be very few persons mentioned, yet are there many more to be presumed; nor when the Scripture in the sine of Sesh nominates but ten persons, are they to be conceived all that were of this generation: The Scripture singly delivereth the holy line, wherein the world was to be preserved, first in Wosh, and afterward in our Saviour. For in this line it is manifest there were many more born than are named for it is said of them all, that they begat sons and daughters. And whereas it is very

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late before it is faid they begat those persons which are named in the Scripture, the foonest at 65, it must not be understood that they had none before but not any in whom it pleased God the holy line should be continued. Andalthough the expression that they begat sons and daughters be not determined to be before or after the mention of thefe, yet must it be before in-some; for before it is said that Adam begat Seth at the 130 year, it is plainly affirmed that Cain knew his wife, and had a fon; which must be one of the daughters of Adam, one of those whereof it is after faid, he begat fons and daughters. And fo for ought can be disproved there might be more persons upon earth then are commonly supposed, when Cain sew Abel: nor the fact to hainously to be aggravated in the circumstance of the fourth person living. And whereas it is said upon the nativity of Seth. God hath appointed me another feed instead of Abel, it doth not imply he had no other all this while; but not any of that expectation, or appointed (as his name implies) to make a progression in the holy line; in whom the world was to be fayed, and from whom he should be born, that was mystically stain in Abel.

Now our first ground to induce the numerofity of people before the flood. is the long duration of their lives, beyond 7, 8, and 9, hundred years. Which how it conduceth unto populofity we thall make but little doubt, if we confider there are two main causes of numerofity in any kind or species. that is, a frequent and multiparous way of breeding, whereby they fill the world with others, though they exist not long themselves; or a long duration and subsistance, whereby they do not only replenish the world with a new annumeration of others, but also maintain the former account in themfelves. From the first cause we may observe examples in creatures oviparous, as Birds and Fishes; in vermiparous, as Flies, Locusts and Gnats; in animals also viviparous, as Swine and Conies. Of the first there is a great example in the herd of Swine in Galilee, although an unclean beaft, and forbidden unto the Jems. Of the other a remarkable one in Atheneus, in the Isle Astipalea, one of the Cyclades now called Stampalia, wherein from two that were imported, the number so increased, that the Inhabitants were constrained to have recourse unto the Oracle of Delphos, for an inven-

tion how to destroy them.

Others there are which make good the paucity of their breed with the length and duration of their daies, whereof there want not examples in animals uniparous: First, in bifulcous or cloven-hooft, as Camels, and A Million of Beeves, whereof there is above a million annually flain in England. It is Beeves yearly faid of Fob, that he had a thousand yoak of Oxen, and fix thousand Camels; killed in Eng. and of the children of Itrael paffing into the land of Canaan, that they land, took from the Midianites threescore and ten thousand Beeves; and of the Army of Semiramis, that there were therein one hundred thousand Camels. For Solipeds or firm hoofed animals, as Horfes, Affes, Mules, &c. they are also in mighty numbers, so is it delivered that fob had a thousand the Affes: that the Midianites loft fixty one thousand Affes. For Horses it is affirmed

affirmed by Diederus, that Ninus brought against the Bastrians two bundred eighty thousand Horses; after him Semiramis five hundred thousand Horses, and Chariots one hundred thousand. Even in creatures steril and such as do not generate, the length of life conduceth much unto the multiplicity of the species; for the number of Mules which live far longer then their Dams or Sires, in Countries where they are bred, is very remark?

ble, and far more common then Horfes.

For Animals multifidous, or fuch as are digitated or have feveral divifions in their feet; there are but two that are uniparous, that is, Men and Elephants; who though their productions be but fingle, are notwithstand-The Elephant (as Ariftotle affirmeth) carrieth the ing very numerous. young two years, and conceiveth not again (as Edvardou Lopez affirmeth) in many after, yet doth their age requite this difadvantage; they living commonly one hundred, fometime two hundred years. Now although they be rare with us in Europe, and altogether unknown unto America, yet in the two other parts of the world they are in great abundance, as appears by the relation of Gorcias ab Horto, Philitian to the Viceroy at Goa; who relates that at one venation the King of Sion took four thousand; and is of opinion they are in other parts in greater number then heards of Beevesin Europe. And though this delivered from a Spaniard unacquainted with our Northern droves, may feem very far to exceed; yet must we conceive them very numerous, if we confider the number of teeth transported from one Country to another s they having only two great teeth, and those not falling or renewing.

As for man, the difadvantage in his fingle iffue is the fame with thele, and an the lateness of his generation somewhat greater then any; yet in the continual and not interrupted time thereof, and the extent of his days, he becomes at present, if not then any other species, at least more numerous then these before mentioned. Now being thus numerous at present, and in the measure of threescore, fourscore or an hundred years, if their dayes exrended unto fix, seven, or eight hundred, their generations would be proportionably multiplied; their times of generation being not only multiplied, but their subsistence continued. For though the great Grand-child went on, the Petrucius and first Original would subsist and make one of the world; though he outlived all the terms of consanguinity, and became a stranger unto his proper progeny. So by compute of Scripture Adam lived unto the ninch generation, unto the days of Lamech the Father of Neah; Methafelab unto the year of the flood; and Noah was contemporary unto all from Enoch unto Abrabam. So that although some died, the father beholding so many descents, the number of Survivers must still be very great; for if half the men were now alive, which lived in the last Century, the earth would scarce contain their number. Whereas in our abridged and septuagesimal Ages, it is very rare, and deserves a Distick to behold the fourth generation. Xerxes complaint still remaining; and what he tamented in his Army, being almost deplorable in the whole world; men

The term for shat person whom consanguineal relations are accounted, as in the Arbon civilis.

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feldom arriving unto those years whereby Methaselab exceeded nine hundred, and what Adam came short of a thousand, was defined long ago to

be the age of man.

Now although the length of days conduceth mainly unto the numerofity of mankind, and it be manifest from Scripture they lived very long, yet is nor the period of their lives determinable, and some might be longer livers, than we account that any were. For (to omit that conceit of some, that Adam was the oldest man, in as much as he is conceived to be created in the maturity of mankind, that is, at 60. (for in that age it is fet down they begatchildren) so that adding this number unto his 930, he was 21 years older than any of his profterity) that even Methuselab was the longest liver of all the children of Adam, we need not grant; nor is it definitively fet down by Mofer. Indeed of those ten mentioned in Scripture, with their feverall ages it must be true; but whether those seven of the line of Cain and their progeny, or any of the fons or daughters posterity after them out-lived thole, is not expressed in holy Scripture; and it will seem more probable. that of the line of Cain, some were longer livers than any of Seth; if we concede that feven generations of the one lived as long as nine of the other. As for what is commonly alledged, that God would not permit the life of any unto a thousand, because (alluding unto that of David) no man should five one day in the fight of the Lord; although it be urged by divers, yet is it methinks an inference somewhat Rabbinicall; and not of power to perfwade a ferious examinator.

Having thus declared how powerfully the length of lives conduced unto populofity of those times, it will yet be easier acknowledged if we descend to particularities, and confider how many in seven hundred years might descend from one man; wherein confidering the length of their dayes, we may conceive the greatest number to have been alive together. And this that no reasonable spirit may contradict, we will declare with manifest disadvantage; for wereas the duration of the world unto the flood was above 1600 years, we will make our compute in lefs then half that time. Nor will we begin with the first man, but allow the earth to be provided of women fit for marriage the second or third first Centuries; and will only take as granted, that they might beget children at fixty, and aten hundred years have twenty, allowing for that number forty years. Nor will we herein fingle out Methuselah, or account from the longest livers, but make choice of the shortest of any we find recorded in the Text, excepting Enoch; who after he had lived as many years as there be days in the year, was translated at 365. And thus from one stock of sever hundred years, multiplying fill by twenty, we shall find the product to be one thousand, three hundred forty feven millions, three hundred fixty eight thousand,

four hundred and twenty,

Century 4 160,000, 3,200,000, 46,000,000, 7,1280,000,000, 11347,368,420.

Now if this account of the learned Petavius will be allowed, it will make an unexpected encrease, and a larger number than may be found in Asia, Africa and Europe; especially if in Constantinople, the greatest City, there be of Europe no more than Botero accounteth; seven hundred thousand souls. Which duly considered, we shall rather admire how the earth contained its inhabitants, then doubts its inhabitation; and might conceive the deluge not simply penall, but in some way also necessary, as many have conceived of translations, if Adam had not sinned, and the

race of man had remained upon earth immortal.

Now wereas some to make good their longevity, have imagined that the years of their compute were Lunary; unto these we must reply: That if by a Lunary year they understand twelve revolutions of the Moon, that is 354 days, eleven fewer then in the Solary year; there will be no great difference; at least not sufficient to con lince or extenuate the question. But if by a Lunary year they mean one revolution of the Moon, that is, a moneth; they first introduce a year never used by the Hebrews, in their Civil accompts; and what is delivered before of the Chaldean years (as Xenophon gives a caution) was only received in the Chronology of their Secondly, they contradict the Scripture, which makes a plain enumeration of many moneths in the account of the Deluge; for lo it is expressed in the Text. In the tenth moneth, in the first day of the moneth were the tops of the mountainsseen : Concordant whereunto is the relation of humane Authors, Inundationes plures fuere, prima novimestris inundatio terrarum sub prisco Ogyge. Meminisse bocloco par est post primum diluvium Ogygi temporibus notatum, cum novem & amplius mensibus diem continua nox inumbrasset, Delon anteomnes terras radiis solis illuminatum fortitumque ex eo nomen. And laftly, they fall upon an absurdity, for they make Enoch to beget children about fix years of age. For whereas it is said he begat Methuselah at 65, if we shall account every moneth a year, he was at that time some fix years and an half, for so many moneths are contained in that space of time.

Having thus declared how much the length of men's lives conduced unto the populofity of their kind, curfecond foundation must be the large extent of time, from the Creation unto the Deluge, that is (according unto received

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Solinm,

computes about 1655 years) almost as long a time as hath pailed fince the nativity of our Saviour: and this we cannot but conceive sufficient for a very large increase, if we do but affirm what reasonable enquirers will not deny: That the earth might be as populous in that number of years before the flood, as we can manifest it was in the same number after. And whereas there may be conceived fome disadvantage, in regard that at the Creation the original of mankind was in two persons, but after the flood their propagation issued at least from fix; against this we might very well set the length of their lives before the flood, which were abbreviated after, and in half this space contracted into hundreds and threescores. Notwithstanding to equalize accounts, we will allow three hundred years, and fo long a time as we can manifest from the Scripture, There were four men at least that begat children, Adam, Cain, Seth, and Enos; So shall we fairly and favourably proceed, if we affirm the world to have been as populous in fixteen hundred and fifty before the flood, as it was in thirteen hundred after. Now how populous and largely inhabited it was within this period of time, we shall declare from probabilities, and several testimonies of Scripture and humane Authors.

And first, To manifest the same neer those parts of the earth where the Ark is presumed to have rested, we have the relation of holy Scripture accounting the genealogy of Faphet, Cham and Sem, and in this last, four descents unto the division of the earth in the days of Peleg, which time although it were not upon common compute much above an hundred years, yes were men at this time mightily increased. Nor can we well conceive it otherwise, if we consider they began already to wander from their first hahitation, and were able to attempt fo mighty a work as the building of a City and a Tower, whose top should reach unto the heavens. Whereunto there was required no flender number of persons, if we consider the magnitude thereof, expressed by some, and conceived to be Turris Beli in Hero. dotus; and the multitudes of people recorded at the erecting of the like or inferiour structures: for at the building of Solomons Temple there were threescore and ten thousand that carried burdens, and fourscore thousand hewers in the mountains, beside the chief of his officers three thousand and three hundred; and at the erecting of the Piramids in the reign of King Cheops, as Herodotus reports, there were decem myriads, that is an hundred thousand men. And though it be said of the Egyptians, Porrum Tuvenah & cape nefas violare & frangere morfu; yet did the lummes expended in Garlick and Onyons amount unto no less then one thousand fix hundred Talents.

The first Monarchy or Kingdom of Babylon is mentioned in Scripture under the foundation of Nimrod, which is also recorded in humane history; as befide Berofus, in Diodorus and Justine, for Nimrod of the Scriptures Who Nimrod is Belus of the Gentles, and Affur the same with Ninus his successour, and Affur There is also mention of divers Cities, particularly of Ninivey and Refen were. expressed emphatically in the Text to be a great City.

That .

That other Countries round about were also peopled, appears by the Wars of the Monarchs of Affria with the Battrians, Indians, Soptians, Ethiopians, Armenians, Hyrcanians, Parthians, Persians, Susians, they vanquishing (as Diodorm relateth) Egypt, Syria, and all Asia minor, even from Bosphorm unto Tanais. And it is said, that Semiramis in her expedition against the Indians brought along with her the King of Arabia. About the same time of the Assyrian Monarchy, do Authors place that of the Sycionians in Greece, and soon after that of the Argives, and not very long after, that of the Athenians under Cecrops; and within our period assumed are historisted many memorable actions of the Greeks, as the expedition of the Argonauces, with the most samous Wars of Thebes and

Troy.

That Canaan also and Egypt were well peopled far within this period. besides their plantation by Canaan and Mifraim, appeareth from the hifory of Abraham, who in less then 400 years after the Flood, journied from Mefopotamia unto Canaan and Egypt, both which he found well peopled and policied into Kingdoms: wherein also in 430 years, from threeicore and ten persons which came with facob into Egypt, he became a mighty Nation; forit is faid, at their departure, there journe yed from Rhamelis to Succoth about fix hundred thousand on foot, that were men, besides children. Now how populous the land from whence they came was, may be collected not only from their ability in commanding fuch subjections and mighty powers under them, but from the feveral accounts of that Kingdom delivered by Herodotme. And how foun it was peopled, is evidenced from the pillar of their King Of gris, with this infcription in Diodorns; Mihi pater eft Saturnas deorum junior, sum vero Ofgris rex qui totum peragravi orbem ufq; ad Inderum fines, ad eos queq; fum profettus qui fepteuerioni Subjacent usq; ad Istri fontes, & alias partes usq; ad Oceanum. Now according unto the best determinations Ofris was Mifraim, and Saturnus Egyptius the same with Cham; after whose name Egypt is not only called in Scripture the land of Ham, but thus much is also testified by Pintarch; for in his Treatife de Ofgride, he dilivereth that Egypt was called Chamia a Chamo Noe filso, that is from Cham the fon of Noah. And if according to the consent of ancient Fathers, Adam was buried in the same place where Christ was crucified, that is Mount Calvary, the first man ranged far before the Flood, and laid his bones many miles from that place, where its presumed he received them. And this migration was the greater, if as the text expresseth, he was Cast out of the East-side of Paradise to till the ground; and as the Position of the Cherubines implieth, who were placed at the eaffend of the garden to keep him from the tree of life.

That the remoter parts of the earth were in this time inhabited is also induceable from the like testimonies, for (omitting the numeration of Josephus, and the genealogies of the Sons of Noah) that Italy was inhabited, appeareth from the Records of Livie, and Dionysius, Halicar-nassus, the story of Aneas, Evander and Janus, whom Annius of Viterbo,

Who Offrie and Saturnin Ægyptius

and the Chorographers of Italy, do make to be the same with Noah, That Sicily was also peopled, is made out from the frequent mention thereof in Homer, the Records of Diodorne and others; but especially from a remarkable paffage touched by Aretim and Ranzanne Bishop of Lucerium. but fully explained by Thomas Fazelli in his accurate History of Sicily; that is, from an ancient inscription in a stone at Panormo, expressed by him in its proper characters, and by a Sprian thus translated, Non ef aline Dem prater unum Deum, non eft alins potens prater eundem Deum, neg: est alius victor prater eundem quem colimus Deum : Hujus turris prafectus off Sapha filins Eliphat, filis Efau, fratris Jacob filis Ifaac, filis Abraham : & turri quidem ipsi nomen est Baych, sed turri buie proxima nomen est Pharath. The antiquity of the inhabitation of Spain is also confirmable, not only from Berofus in the plantation of Tubal, and a City continuing yet in his name; but the story of Gerion, the travels of Hercules and his pillars: and especially a passage in Strabo, which advanceth unto the time of Ninm, thus delivered in his fourth book. The Spaniards (faith he) affirm that they have had Laws and Letters above fix thousand years. Now the Spaniards or Iberians observing (as Xenophon hath delivered) Ansumquadrimeftrem, four moneths unto a year, this compute will make up 3000 tolary years, which is about the space of time from Strabo, who lived in the days of Augustus, unto the reign of Ninus.

That Manritania and the coast of Africa were peopled very soon, is the conjecture of many wise men, and that by the Phanicians, who less their Country upon the invasion of Canaan by the Israelites. For beside the conformity of the Punick or Carthaginian language with that of Phanicia, there is a pregnant and very remarkable testimony hereof in Procopius, who in his second die bello vandalico, recordeth, that in a town of Mauritania Tingitana, there was to be seen upon two white Columns in the Phanician language these ensuing words; Nos Maurici sumus qui sugimus a facie Jehoschue silii Nunia pradatoris. The fortunate Islands or Canaries were not unknown; for so doth Strabo interpret that speech

in Homer of Proteus unto Menalaus,

Sed te quaterra postremus terminus extat, Elysium in Campum cælestia numina ducunt.

The like might we affirm from credible histories both of France and Germany, and perhaps also of our own Country. For omitting the fabulous and Trojan original delivered by Feofrey of Monmonth, and the express text of Scripture; that the race of Faphet did people the Isles of the Gentiles; the Brittish Original was so obscure in Casars time, that he affirmeth the Inland inhabitants were Aborigines, that is, such as reported that they had their beginning in the Island. That Ireland our neighbour Island was not long time without Inhabitants, may be made propably by sundry accounts; although we abate the Traditions of Bartholanus the Scythian, who arrived

Bochant Geog.

Sact. part. 2.

arrived there three bundred years after the flood, or the relation of Gi -raidus; that Cafaria the daughter of Noah dwelt there before.

Now should we call in the learned account of Boshartus, deducing the ancient names of Countries from Phanicians, who by their plantations, discoveries, and sea negotiations, have lest unto very many Countries, Phanitian denominations; the enquiry would be much shorter, and if Spain in the Phanieian Original, be but the region of Conies, Lustania, or Portugal the Countrey of Almonds, if Brittanica were at first Barata. naca, or the land of Tin, and Ibernia or Ireland, were but Ibernae, or the farthest habitation; and these names imposed and disperfed by Phania cian Colonies in their feveral navigations; the Antiquity of habitations

might be more clearly advanced.

Thus though we have declared how largely the world was inhabited within the space of 1300 years, yet must it be conceived more populous then can be clearly evinced; for a greater part of the earth hathever been peopled, then hath been known or described by Geographers, as will appear by the discoveries of all Ages. For neither in Herodotus or Theucydides do we find any mention of Rome, nor in Ptolomy of many parts of Europe, Afia or Africa. And because many places we have declared of long plantations of whose populosity notwithstanding or memorable actions we have no ancient flory; if we may conjecture of these by what we find related of others, we shall not need many words, nor assume the half of 1200 years. And this we might illustrate from the mighty acts of the Affrians performed not long after the flood; recorded by Justine and Diodorns; who makes relation of expeditions by Armies more numerous then have been ever fince. For Ninus King of Affria brought against the Bactrians 700000 foot, 200000 horse, 10600 Chariots. Semirami his successor led against the Indians 1300000 foor, 500000 horse, 100000 Chariots, and as many upon Camels: And it is faid, Staurobates the Indian King, met her with greater forces then she brought against him. All which was performed within less then four hundred years after the flood.

Now if any imagine the unity of their language did hinder their difperfion before the flood, we confess it some hindrance at first, but not much afterward. For though it might reftrain their dispersion, it could not their populofity; which necessarily requireth transmigration and emission of Colonies; as we read of Romans, Greeks, Phanicians in ages post, and have beheld examples thereof in our days. We may also observe that after the flood before the confusion of tongues, men began to disperse: for it is faid, they journyed towards the East: and the Scripture it felf expresseth a necessity conceived of their dispersion, for the intent of erecting the Tower is fo delivered in the text, Left we be scattered abroad upon

the face of the earth.

Again, If any apprehend the plantation of the earth more case in regard of Navigation and thipping discovered fince the flood, whereby the Islands and divided parts of the earth are now inhabited; he must consider, that whether

whether there were islands or no before the flood, is not yet determined, Whether any and is with probability denied by very learned Authors.

I aftly, If we shall fall into apprehension that it was less in believe the Flood.

Lastly, If we shall fall into apprehension that it was less inhabited, because it is said in the fixt of Genesis about a 120 years before the flood, and it came to pass that when men began to multiply upon the sace of the earth. Beside that this may be only meant of the race of Cain, it will not import they were not multiplied before, but that they were at that time plentifully encreased; for so is the same word used in other parts of Scripture. And so is it afterward in the 9 Chapter said, that Noah began to be an husbandman, that is, he was so, or earnestly performed the Acts thereof; so it is said of our Saviour, that he began to cast them out that bought and sold in the Temple, that is, he actually

cast them out, or with alacrity effected it.

Thus have I declared some private and probable conceptions in the enquiry of this truth; but the certainty hereoflet the Arithmetick of the last day determine; and therefore expect no further belief than probability and reason induce. Only desire men would not swallow dubiosities for certainties, and receive as Principles points mainly controvertible; for we are to adhere unto things doubtful in a dubious and opinative way. It being reasonable for every man to vary his opinion according to the variance of his reason, and to affirm one day what he denied another. Wherein although at last we miss of truth; we die notwithstanding in inosfensive errors; because we adhere unto that, whereunto the examen of our reasons, and honest enquiries induce us.

CHAP. VII.

Of East, and West.

He next shall be of East and West; that is, the proprieties and conditions ascribed unto Regions respectively unto those situations; which hath been the obvious conception of Philosophers and Geographers, magnifying the condition of India, and the Eastern Countries, above the setting and occidential Climates, some ascribing hereto the generation of gold, precious stones and spices, others the civility and natural endowments of men; conceiving the bodies of this situation to receive a special impression from the first salutes of the Sun, and some appropriate influence from his ascendent and oriental radiations. But these proprieties assisted unto bodies, upon considerations deduced from East, West, or those observable poins of the sphere, how specious and plausible so ever, will not upon enquiry be justified from such soundations.

For

For to speak strictly, there is no East and West in nature, nor are those absolute and invariable, but respective and mutable points, according unto different longitudes, or distant parts of habitation, whereby they suffer many and considerable variations. For first, unto some the same part will be East or West in respect of one another, that is, unto such as inhabit the same parallel, or differently dwell from East to West. Thus as unto Spain, Italy lyeth East, unto Italy Greece, unto Greece Persia, and unto Persia China; so again unto the Country of China, Persia lyeth West, unto Persia Greece, unto Greece Italy, and unto Italy Spain. So that the same Country is sometimes East and sometimes West; and Persia though East unto Greece, yet is it West unto China.

Unto other habitations the same point will be both East and West; as unto those that are Antipodes or seated in points of the Globe diametrically opposed. So the Americans are Antipodal unto the Indians, and some part of Indians both East and West unto America, according as it shall be regarded from one side or the other, to the right or to the lest; and setting out from any middle point, either by East or West, the distance unto the place intended is equal, and in the same space of time in

nature also performable.

To a third that have the Poles for their vertex, or dwell in the polition of a parallel sphere, there will be neither East nor West, at least the greatest part of the year. For if (as the name Oriental implyeth) they shall account that part to be East where ever the Sun ariseth, or that West where the Sun is occidental or fetteth; almost half the year they have neither the one nor the other. For half the year it is below their Horizon, and the other half it is continually above it, and circling round about them interseding not the Horizon, nor leaveth any part for this compute. And if (which will feem very reasonable) that part should be termed the Eastern point, where the Sun at Aguinox, and but once in the year arifeth, yet will this also disturb the cardinal accounts, nor will it with propriety admit that appellation. For that furely cannot be accounted East which hath the South on both fides; which notwithstanding this position must have. For if unto such as live under the Pole, that be only North which is above them, that must be Southerly which is below them, which is all the other portion of the Globe, befide that part poffessed them. And thus these points of East and West being not absolute in any, respective in some, and not at all relating unto others; we cannot hereon establish so general considerations, nor reafonably ere& fuch immutable affertions, upon fo unftable found tions.

Now the ground that begat or promoted this conceit, was first a mi-stake in the apprehension of East and West, considering thereof as of the North and South, and computing by these as invariably as by the other; but herein, upon second thoughts there is a great disparity. For the North and Southern Pole, are the invariable terms of that Axis whereon the

heavens

heavens do move; and are therefore incommunicable and fixed points; Whatthe Norwhereof the one is not apprehenlible in the other. But with East and thernand Sou-West it is quite otherwise: for the revolution of the Orbs being made them Poles be. upon the Poles of North and South, all other points about the Axis are mutable; and wherefoever therein the East point be determined; by fuccession of parts in one revolution every point becometh East. And so if where the Sun ariseth, that part be termed East, every habitation differing in longitude, will have this point also different; in as much as the Sun fuccessively ariseth unto every one,

The second ground, although it depend upon the former, approacheth nearer the effect; and that is the efficacy of the Sun, fet out and divided according to priority of ascent; whereby his influence is conceived more favourable unto one Countrey than another, and to felicitate India more than any after. But hereby we canot avoid abfurdities, and fuch as inter effects controulable by our fenfes. For first, by the same reason that we affirm the Indian richer than the American, the American will also be more plentiful than the Indian, and England or Spain more fruitful than Hispaniola or golden Castle; in as much as the Sun ariseth unto the one sooner than the other; and so accountably unto any Nation subjected unto the fame parallel, or with a confiderable diverfity of longitude from each other.

Secondly, An unsufferable absurdity will ensue: for thereby a Country may be more fruitful than it self: For India is more fertile than Spain, because more East, and that the Sun ariseth first unto it: Spain likewise by the same reason more fruitful than America, and America than India: fo that Spain is less fruitful than that Countrey, which a less fertile Coun-

try than it felf excelleth.

Lastly, If we conceive the Sun hath any advantage by priority of ascent, or makes thereby one Country more happy than another, we introduce injustifiable determinations, and impose a natural partiality on that Luminary, which being equidiffant from the earth, and equally removed in Degenmin to the East as in the West, his Power and Efficacy in both places must be excited. equal, as Boerito hath taken notice, and Scaliger hath graphically declared. Some have therefore for faken this refuge of the Sun, and to falve the effect have recurred unto the influence of the Stars, making their activities National, and appropriating their Powers unto particular regions. So Cardan conceiveth the tail of Urfa Major peculiarly respecteth En. rop: whereas indeed once in 24 hours it also absolveth its course over Asia and America. And therefore it will not be easie to apprehend those stars peculiarly glance on us, who must of necessity carry a common eye and regard unto all Countries, unto home their revolution and verticity is also common.

The effects therefore or different productions in feveral Countries, which we impute unto the action of the Sun, must furely have nearer and more immediate causes than that Luminary. And these if we place Zzz.

re rye oft.

ced, we shall more reasonably proceed, than they who ascribe them unto the activity of the Sun. Whose revolution being regular, it hath no power nor efficacy peculiar from its orientality, but equally disperfeth his beams, unto all which equally, and in the fame restriction, receive his luftre. And being an universal and indefinite agent, the effects or productions we behold, receive not their circle from his causality, but are determined by the principles of the place, or qualities of that region which admits them. And this is evident not only in gemms, minerals, and mettals, but observable in plants and animals; whereof some are common unto many Countries, some peculiar unto one, some not communicable unto another. For the hand of God that first created the earth, hath with variety disposed the principles of all things; wifely contriving them in their proper feminaries, and where they best maintain the intention of their species; whereof if they have not a concurrence, and be not lodged in a convenient matrix, they are not excited by the efficacy of the Sun; or failing in particular causes, receive a relief or fufficient promotion from the universal. For although superiour powers co-operate with inferiour activities, and may (as some conceive) carry a stroke in the plastick and formative draught of all things, vet do their determinations belong unto particular agents, and are defined from their proper principles. Thus the Sun which with us is fruitful in the generation of Frogs, Toads and Serpents, to this effect proves impotent in our neighbour Island; wherein as in all other carrying a common aspect, it concurreth but unto predisposed effects; and only fuscitates those forms, whose determinations are seminal, and proceed from the Idea of themselves.

in the propriety of clime, or condition of foil wherein they are produ-

Whence proseed the different commodities of fevecal Countrie'.

Now whereas there be many observations concerning East, and divers confiderations of Art which feem to extol the quality of that point, if rightly understood they do not really promote it. That the Astrologer takes account of nativities from the Ascendent, that is, the first house of the heavens, whose beginning is toward the East, it doth not advantage the conceit. For, he establisheth not his Judgment upon the orientality thereof, but confidereth therein his first ascent above the Horizon; at which time its efficacy becomes observable, and is conceived to have the fignification of life, and to respect the condition of the Accednent all things, which at the same time arise from their causes, and ascend to their Horizon with it. Now this ascension indeed falls out respectively in the East: but as we have delivered before, in some positions there is no Eastern point from whence to compute these ascentions. it in a parallel sphere: for unto them six houses are continually depresfed, and fix never elevated: and the planets themselves, whose revolutions are of more speed, and influences of higher consideration, must find in that place a very imperfect regard; for half their period they ab-

Why Aftrological judg. ments upon Nativities be taken from

solve above, and half beneath the Horizon. And so for fix years, no man can have the happiness to be born under Jupiter: and for fifteen together all must escape the ascendent dominion of Saturn.

That Aristotle in his Politicks, commends the situation of a City which is open towards the East, and admitteth the raies of the rifing Sun, thereby is implied no more particular efficacy than in the West: But that polition is commended, in regard the damps and vaporous exhalations ingendered in the absence of the Sun, are by his returning raies the sooner dispelled; and men thereby more early enjoy a clear and healthy habitation. Upon the like confiderations it is, that Marcus Varro commendeth the same situation, and exposeth his farm unto the equinoxi- De re Russica. al ascent of the Sun, and that Palladius adviseth the front of his edifice should so respect the South, that in the first angle it receive the rising raies of the Winter Sun, and decline a little from the Winter fetting thereof. And concordant hereunto is the instruction of Columella De positione villa: which he contriveth into Summer and Winter habitations, ordering that the Winter lodgings regard the Winter ascent of the Sun, that is South-East; and the rooms of repast at supper, the Æquinoxial fetting thereof, that is the West: that the Summer lodgings regard the Æquinoxial Meridian: but the rooms of canation in the Summer, he obverts unto the Winter ascent, that is, South-East; and the Balnearies or bathing places, that they may remain under the Sun until evening, he exposeth unto the Summer setting, that is, North-West, in all which although the Cardinal points be introduced, yet is the confideration Solary, and only determined unto the aspect or visible reception of the Sun.

Jews and Mahometans in these and our neighbour parts are observed touse some gestures towards the East, as at their benediction, and the killing of their meat. And though many ignorant spectators, and not a few of the Actors conceive some Magick or Mysterie therein, yet is the Ceremony only Topical, and in a memorial relation unto a place they honour. So the fews do carry a respect and castan eye upon ferufalem: for which practice they are not without the example of their fore-fathers, and the encouragement of their wife King; For fo it is Dan. 6. faid that Daniel went into his house, and his windows being opened towards Terusalem, he kneeled upon his knees three times a day, and prayed. So is it expressed in the prayer of Solomon, what prayer or supplication on foever be made by any man, which shall spread forth his hands towards this houle: if thy people go out to battle, and shall pray unto the Lord towards the City which thou hast chosen, and towards the house which I have chosen to build for thy Name, then hear thou in heaven their prayer and their supplication, and maintain their cause. Now the observation hereof:

Luke 12,

Tob.

hereof, unto the Jews that are disperfed Westward, and such as most converse with us, directeth their regard unto the East: But the words of Soloman are appliable unto all quarters of Heaven: and by the Jews of the East and South must be regarded in a contrary position. So Daniel in Babylon looking toward ferusalem had his face toward the West, So the Jews in their own land looked upon it from all quarters. For the Tribe of Judah beheld it to the North : Manaffes, Zabulon, and Nepthalisunto the South: Renben and Gad unto the West; only the Tribe of Dan regarded it directly or to the due East. So when it is said, when you fee a cloud rife out of the West, you say there cometh a shower, and fo it is; the observation was respective unto Indea: nor is this a reasonable illation in all other Nations whatfoever: For the Sea lay West unto that Country, and the winds brought rain from that quarter; But this confideration cannot be transferred unto India or China, which have a vaft Sea Eastward; and a vafter Continent toward the West. So likewife when it is faid in the vulgar Translation, Gold cometh out of the North, it is no reasonable inducement unto us and many other Countries, from some particular mines septentrional unto his situation, to fearch after that mettal in cold and Northern regions, which we most plentifully discover in hot and Southern habitations.

For the Mahometans, as they partake with all Religions in something, so they imitate the Jew in this. For in their observed gestures, they hold a regard unto Mecha and Medina Talnahi, two Cities in Arabia salia; where there Prophet was born and buried; whither they perform their pilgrimages: and from whence they expect he should return again. And therefore they direct their saces unto these parts; which unto the Mahometans of Barbary and Egypt lie East, and are in some point thereof unto many other parts of Turkie. Wherein not with standing there is no Oriental respect; for with the same devotion on the other side they regard these parts toward the West, and so with variety where-soever they are seated; conforming unto the ground of their concepti-

on.

Fourthly, Whereas in the ordering of the Camp of Israel, the East quarter is appointed unto the noblest Tribe, that is the Tribe of Judah, according to the command of God, in the East-side toward the rising of the Sun shall the Standard of the Tribe of Judah pitch: it doth not peculiarly extol that point. For herein the East is not to be taken strictly, but as it signifies or implies the foremost place; for Judah had the Van, and many Countries through which they passed were seated Easterly unto them. Thus much is implied by the Original, and expressed by Translations which strictly conform thereto: So tremelius, Castra habentium ab anteriore parte Orientem versus, vexistum esto castrourum Juda; so hath R. Solomen Jarchi expounded it, the foremost or before, is the East quarter, and the West is called belind. And upon this interpretation

Num. 3.

may all be falved that is alleageable against it. For if the Tribe of ?mdah were to pitch before the Tabernacle at the East, and yet to march first. as is commanded, Numb. 10. there must ensue a disorder in the Camp. nor could they conveniently observe the execution thereof: For when they fet out from Mount Sinah where the Command was delivered, they made Northward unto Rithmah; from Riffah unto Eziongaber about fourteen stations they marched South: From Almon Diblathaim through the mountains of Yabarim and plains of Moab towards Fordan the face of their march was West: So that if Judah were strictly to pitch in the East of the Tabernacle, every night he encamped in the Rear : and if (as some conceive) the whole Camp could not be less than twelve miles long, it had been prepolterous for him to have marched foremost; or fet our first who was most remote from the place to be approached.

Fiftly, That Learning, Civility and Arts had their beginning in the East, it is not imputable either to the action of the Sun, or its Orientality, but the first plantation of Man in those parts; which unto Europe do carry the respect of East. For on the mountains of Ararat, that is Wherethe Aik part of the nill Taurus, between the East Indies and Scythia, as Sir W. tefted as some think. Raleigh accounts it, the Ark of Noah rested; from the East they travelled that built the Tower of Babel: from thence they were dispersed and fucceffively enlarged, and Learning, good Arts, and all Civility communicated. The progression whereof was very sensible; and if we consider the distance of time between the confusion of Babel, and the Civility of many parts now eminent therein, it travelled late and flowly into our quarters. For notwithstanding the learning of Bardes and Druides of elder times, he that thall peruse that work of Tacitus de moribus Germanorum, may eafily difcern how little Civility two thousand years had wrought upon that Nation: the like he may observe concerming our felves, from the same Author in the life of Agricola, and more directly from Strabo; who to the dithonour of our Predecessors, and the disparagement of those that glory in the Antiquity of their Ancestors, affirmeth the Britains were so simple, that though they abounded in Milk, they had not the Artifice of Cheefe.

Lastly, That the Globe it self is by Cosmographers divided into East and West, accounting from the first Meridian, it doth not establish this conceit. For that division is not naturally founded, but artificially set down, and by agreement; as the aptest terms to define or commensurate the longitude of places. Thus the ancient Cosmographers do place the division of the East and Western Hemisphere, that is the first term of longitude in the Canary or fortunate Islands; conceiving these parts the extreamest habitations Westward: But the Modern's have altered that term, and translated it unto the Azores or Islands of St. Michael; and that upon a plaufable conceit of the small or insensible variation of the Compass in those parts, wherein nevertheless, though upon second invention, they proceed

proceed upon a common and no apppropriate foundation; for even in that Meridian farther North or South the Compass observably varieth; and there are also other places wherein it varieth not, as Alphonso and Rodoriges de Lago will have it about Capo de las Agullas in Africa; as Maurolyeus affirmeth in the shore of Peleponesus in Europe: and as Gilbertus averreth, in the midst of great regions, in most parts of the earth.

CHAP. VIII.

of the River Nilus.

Ereof uncontroulably and under general confent many opinions are passant, which notwithstanding upon due examination, do admit of doubt or restriction. It is generally esteemed, and by most unto our days received, that the River of Nilus hath seven ostiaries; that is, by seven Channels disburdneth it self into the Sea. Wherein notwithstanding, beside that we find no concurrent determination of ages pass, and a positive and undeniable results of these present; the affirmative is mutable, and must not be received without all limitation.

For fome, from whom we receive the greatest illustrations of Antiquity, have made no mention hereof: So Homer hath given no number of its Channels, nor so much as the name thereof in use with all Histo-Eratostenes in his description of Egypt hath likewise passed them Aristotle is so indistinct in their names and numbers, that in the first of Meteors he plainly affirmeth the Region of Egypt (which we esteem the ancientest Nation in the world) was a meer gained ground, and that by the fetling of mud and limous matter brought down by the River Nilus, that which was at first a continued Sea, was raised at last into a firm and habitable Country. The like opinion he held of Meetis Palses, that by the floods of Tanais and earth brought down thereby, it grew observably shallower in his days, and would in process of time become a firm land. And though his conjecture be not as yet fulfilled, yet is the like observable in the River Gibon, a branch of Euphrates and River of Paradife; which having in former Ages discharged it self into the Persian Sea, dothat present fall short; being lost in the lakes of Chaldea, and hath left between the Sea, a large and confiderable part of dry land.

Others expresly treating hereof, have diversly delivered themselves; Berodotus in his Euterpe makes mention of seven; but carelessly of two thereof; that is Bolbstinum, and Bucolicum; for these, saith he, were not the natural currents, but made by Art for some occasional convenience.

Strabo

How Egyps first became firm land.

Strabe in his Geography naming but two, Pelenjiacum and Canopicum; plainly affirmeth there were many more then feven; Inter hee alia quinque, There are (faith he) many remarkable towns within the currents of Nile, especially such which have given the names unto the offiaries thereof. not unto all, for they are eleven, and four befides, but unto feven and moft confiderable; that is Canopicum, Bolbitinum, Selenneticum, Sebennetieum, Pharniticum, Mendefium, Taniticum and Pelufium: wherein to make up the number, one of the artificial chanels of Herodot us is aci Prolomy an Egyptian, and born at the Pelufian mouth of Nile. in his Geography maketh nine: and in the third Map of Africa, hath unto their mouths prefixed their feveral names; Heracleotieum, Bolbitinum, Sebenneticum, Pineptum, Diolcos, Pathmeticum, Mendefium Taniticum, Peleusiacum: wherein notwichstanding there are no less then three different names from those delivered by Pliny. All which considered. we may eafily discern that Authors accord not either in name or number : and must needs confirm the Judgement of Maginus, de Oftiorum Nilinumero & nominibus, valde antiqui scriptores discordant.

Modern Geographers and travellers do much abate of this number, for as Maginus and others observe, there are now but three or four mouths thereof; as Gulielman Tyring long ago, and Belloning fince, both ocular enquirers with others have attefted. For below Cairo, the River divides it felf into four branches, whereof two make the chief and navigation fireams, the one running to Pelasium of the Ancients, and now Damiata : the other unto Canopium, and now Rofcetta; the other two, faith Mr. Sandys, do run between thele; but poor in water. Of thole feven men- Sand Relation sioned by Herodotses, and those nine by Ptolomy, these are all I could either fee or hear of. Which much confirmeth the test mony of the Bishop of Tyre a diligent and ocular Enquirer; who in his holy war doth thus deliver himself. We wonder much at the Ancients, who affigned seven mouths unto Nilw: which we can no otherwise salve, then that by process of time, the face of places is altered, and the river hath loft his chanels a or that our fore-fathers did never obtain a true account thereof.

And therefore when it is faid in holy Scripture, The Lord fhall utterly Ifa. 11.15,16. destroy the tongue of the Egyptian les, and with his mighty wind he shall fake his hand over the river, and shall smite it in the seven streams, and make men go over dry-shod. If this expression concerneth the river Nilus. it must only respect the seven principal streams. But the place is very obfourt, and whether thereby be not meant the river Euphrates, is not without some controversie; as is collectible from the subsequent words; And there shall be an high way for the remnant of his people, that shall be left from Affyria; and also from the bare name River, emphatically fignifying Emphrates, and thereby the division of the Affyrian Empire into many Gr. Nos.in fractions, which might facilitate their return: as Grotins hath observed; Islam.
and is more plainly made out, if the Apocrypha of Estra, and that of the Apocalyps have any relation hereto.

Apoc. 16-13.

Laffly ,

Laftly, Whatever was or is their number, the contrivers of Cards and Maps afford us no affurence or conftant description therein. For whereas Prolomy hath fet forth nine, Honding in his Map of Africa, makes but eight, and in that of Europe ten. Ortelius in the Map of the Turkit Empire, fetteth down eight, in that of Egypt eleven ; and Maginus in his Map of that Country hath observed the same number. And if we enquire farther, we shall find the same diversity and discord in divers others.

Thus may we perceive that this account was differently related by the Ancients, that it is undeniably rejected by the Moderns, and must be warily received by any. For if we receive them all into account, they were more then feven, if only the natural fluces, they were fewer; and however we receive them, there is no agreeable and constant description thereof. And therefore how reasonable it is to draw continual and durable deductions from alterable and uncertain foundations; let them confider who make the gates of Thebes, and the mouths of this River a confiant and continued periphrasis for this number, and in their Poetical expressions do give the River that Epithite unto this day.

The fame River is also accounted the greatest of the earth, called there. fore Fluviarum pater, and toting Orbis maximus, by Orteline: If this be true, many Maps must be corrected, or the relations of divers good Authors

renounced.

For first, In the deliniations of many Maps of Africa, the River Niger exceedeth it about ten degrees in length, that is, no less then fix hundred miles. For arising beyond the Equator it maketh Northward almost is degrees, and deflecting after Westward, without Meanders, continueths Arais course about 40 degrees; and at length with many great currents disburdeneth it self into the Occidental Ocean. Again, if we credit the descriptions of good Authors, other Rivers excell it in length, or breadth, or both. Arrianus in his history of Alexander, affigneth the first place unto the River Ganges; which truly according unto latter relations, if not in length, yet in breadth and depth may be granted to excell it. For the magnitude of Nilm confifteth in the dimension of longitude, and is inconfiderable in the other; what stream it maintaineth beyond Spene or Afra, and so forward unto its original, relations are very imperfect; but below these places, and farther removed from the head, the current is but narrow, and we read in the History of the Turks, the Tartar horsemen of Seleman, Iwam over the Nile from Caire, to meet the forces of Tenumbens. Bapincremente Ni tiffa Scoreia expressy treating hereof preferreth the River of Plate in America; for that as Maffons hath delivered, falleth into the Ocean in the latitude of forty leagues; and with that fource and plenty that men at Sea do tast fresh water, before they approach so near as to discover the land. So is it exceeded by that which by Cardan is termed the greatest in the world, that is the River Oregliana in the same continent; which as Maginus delivereth, hath been navigated 6000 miles; and opens in a chanel of ninety leagues broad; fo that, as doofen, an ocular wirness recordeth.

De natura & li,

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theordeth, they that fail in the middle, can make no land of either Eđe,

Now the ground of this affertion was farely the magnifying effeem of the Ancients, ariling from the indiscovery of its head. For as things inknown feem greater then they are, and are usually received with amplifations above their nature; so might it also be with this River, whose head being unknown and drawn to a proverbial obscurity, the opinion thereof became without bounds; and men must needs conceit a large extent of that to which the discovery of no man had fet a period. And this an aful way to give the superlative unto things of eminency in any kind ; and when a thing is very great, prefently to define it to be the greatest of all. Whereas indeed Superlatives are difficult; whereof there being but one in every kind, their decerminations are dangerous, and must not be made The greatest without great circumspections. So the City of Rome is magnified by the Cities of the Latines to be the greatest of the earth; but time and Geography informs us, World. that Cairo is bigger, and Quinfay in China far exceedeth both. So is Olympsis extolled by the Greeks, as an hill attaining unto heaven; but the inlarged Geography of aftertimes, makes flight account hereof, when they The highest discourse of Andes in Pern, or Teneriffa in the Canaries. And we under- Hills. fland by a person who hath lately had a fair opportunity to behold the magnified mount Olympus, that it is exceeded by some peakes of the Alpes. So have all Ages conceived, and most are still ready to swear, the Wren is the least of Birds; yet the discoveries of America, and even of our own Plantations have shewed as one far less; that is, the Humbird, not much exceeding a Beetle. And truly, for the least and greatest, the highest and the lowest of every kind, as it is very difficult to define them in visible Tomingian things; so is it to understand in things invisible. Thus is it no easie lesson to comprehend the first matter, and the affections of that which is next neighbour unto nothing, but impossible truly to comprehend God, who indeed is all in all. For things as they arise unto perfection, and approach unto God, or descend to impersection, and draw nearer unto nothing, fall both imperfectly into our apprehensions; the one being too weak for our conceptions, our conceptions too weak for the other.

Thirdly, Divers conceptions there are concerning its increment or inundation. The first unwarily opinions, that this encrease or annual overflowing is proper unto Nile, and not agreeable unto any other River; which notwithstanding is common unto many Currents of Africa. For about the same time the River Niger and Zaire do overflow; and so do the Rivers beyond the mountains of the Moon, as Suama, and Spirite Sante. And not only these in Africa, but some also in Europe and Afia; for so it is reported of Menan in India, and so doth Botero report of Duina in Livonia; and the same is also observable in the River Fordan in Fudea; for so is it delivered, that Fordan overfloweth all his banks in the time of

The effect indeed is wonderful in all, and the causes surely best resolveble Aaa 2

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The cause of the overflowing of Nilm.

ble from observations made in the Countries themselves, the parts brough which they pass, or whence they take their Original. That of Nilus hath been attempted by Many, and by fome to that despair of resolution, that they have only referred it unto the Providence of God, and his fecret manuduction of all things unto their ends. But divers have attained the truth. and the cause alledged by Diodorus, Seneca, Strabo, and others, is allowable : that the inundation of Nilus in Egypt proceeded from the rains in Athiopia, and the mighty fource of waters falling towards the fountains thereof. For this inundation unto the Egyptians happeneth when it is winter unto the Athiopians; which habitations, although they have no cold Winter (the Sun being no farther removed from them in Cancer, then unto us in Taurus) yet is the fervour of the air fo well remitted, as it admits a sufficient generation of vapors, and plenty of showers ensuing thereupon. This Theory of the Ancients is fince confirmed by experience of the Moderns; by Franciscus Alvarez, who lived long in those parts. and left a description of Atbiopia; affirming that from the middle of June unto September, there fell in his time continual rains. As also An. tonius Ferdinandus, who in an Epistle written from thence, and noted by Codignus, affirmeth, that during the winter, in those Countries there paffed no day without rain.

Now this is also usual, to translate a remarkable quality into a propriety, and where we admire an effect in one, to opinion there is not the like in any other. With these conceits do common apprehensions entertain the antidotal and wondrous condition of Ireland; conceiving only in that land an immunity from venemous creatures: but unto him that shall further enquire, the same will be affirmed of Creta, memorable in ancient flories, even unto fabulous causes, and benediction from the birth of Tupiter. The same is also found in Ebusus or Evisa, an Island near Majorca upon the coast of Spain. With these apprehensions do the eyes of neighbour Spectators behold Arna, the flaming mountain in Sicilia; but Navigators tell us there is a burning mountain in Island: a more remarkable one in The neriffa of the Canaries, and many Vulcano's or fiery Hils elfewere, Thus Crocodiles were thought to be peculiar unto Nile, and the opinion so possessed Alexander, that when he had discovered some in Ganges, he fell upon a conceit he had found the head of Nilwisbut later discoveries affirm they are not only in Asa and Africa, but very frequent in some rivers of America.

Another opinion confineth its Inundation, and positively affirmeth, it constantly encreaseth the seventeenth day of June; wherein perhaps a larger form of speech were safer, then that which punctually prefixeth a constant day thereto. For this expression is different from that of the Ancients, as Herodotus, Diodorus, Seneca, &c. delivering only that it happeneth about the entrance of the Sun into Cancer; wherein they warily deliver themselves, and reserve a reasonable latitude. So when Hippocrates saith, Sub Cane & anto Canem difficiles sunt purgationes: There is a satisfue of days comprised therein; for under the Dog star he

containeth

containeth not only the day of its ascent, but many following, and some ten days preceeding. So Aristotle delivers the affections of animals: with the wary terms of Circa, & magna ex parte: and when Theodorus translateth that part of his, Count Thunni & Scombri mense Pebruario post Idus, pariunt Junio ante Nona: Scaliger for ante Nona, renders it Junis initio; because that exposition affordeth the latitude of divers days: For affirming it happeneth before the Nones; he alloweth but one day: that is the Calenday for in the Roman account, the second day is the sources of June.

Again, Were the day definitive, it had prevented the delusion of the devil, nor could be have gained applause by its prediction; who notwithstanding (as Athanasius in the life of Anthony relateth) to magnifie his knowledge in things to come, when he perceived the rains to fall in Ethiopia, would presage unto the Egyptians the day of its inundation. And this would also make useless that natural experiment observed in earth or (and about the River; by the weight whereof (as good Authors report)

they have unto this day a knowledge of its increase.

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Lastly, It is not reasonable from variable and unstable causes, to derive a fixed and constant effect, and such are the causes of this inundation, which cannot indeed be regular, and therefore their effects not progno-flicable like Eclipses. For depending upon the clouds and descent of showers in **Ethiopia*, which have their generation from vaporous exhalations, they must submit their existence unto contingencies, and endure anticipation and recession from the movable condition of their causes. And therefore some years there hath been no encrease at all, as some conceive in the years of Famin under *Phoraob*, as Seneca*, and divers relate of the eleventh year of *Cleopatra*; nor nine years together, as is testified by **Califbenes*. Some years it hath also retarded, and came far later then usually it was expected, as according to *Sozomen* and **Ricephorus* it happened in the days of *Theodosius*; whereat the people were ready to mutiny, because they might not sacrifice unto the River, according to the custom of their Predecessors.

Now this is also an usual way of mistake, and many are deceived who too strictly construe the temporal considerations of things. Thus books will tell us, and we are made to believe that the fourteenth year males are seminifical and pubescent; but he that shall enquire into the generality, will rather adhere unto the cautelous affertion of Aristotle, that is, bis septem annivexastis, and then but magna ex parte. that Whelps are blind nine days, and then begin to see, is generally believed, but as we have elsewhere declared, it is exceeding rare, nor do their eye-lidsusually open until the twelth, and sometimes not before the sourceanth day. And to speak strictly, an hazardable determination it is unto structing and indifferent effects, to affix a positive Type or Period. For in effects of far more regular causalities, difficulties do often arise, and even in time it self, which measureth altchings, we use allowance in its commensuratio.

Thus

Thus while we conceive we have the account of a year in 365 days, exact enquirers and Computiffs will rell us, that we escape 6 hours, that is a quarter of a day. And so in a day which every one accounts 24 hours, or one revolution of the Sun; in strict account we must allow the addition of such a part as the Sun doth make in his proper motion, from West to East,

whereby in one day he describeth not a perfect Circle.

Fourthly, It is affirmed by many, and received by most, that it never raineth in Egypt, the riversupplying that defect, and bountifully requiring it in its inundation: but this must also be received in a qualified sense, that is, that it rains but seldom at any time in the Summer, and very rarely in the Winter. But that great showers do sometimes fall upon that Region, beside the Affertion of many Writers, we can confirm from honourable and ocular testimony, and that not many years past, it rained in Grand Caire divers days together.

That Egypt hath rain, Sir William Paffon Baronet.

The same is also attested concerning other parts of Egypt, by Propor Alpinus, who sived long in that Country, and hath left an accurate Treaty of the medical practise thereof. Cayri rare decidant plavia, Alexandria, Pelusting & in omnibus lock mari adjacentibus, pluit largissime & sape; that is, it raineth seldom at Cairo, but at Alexandria, Damiata, and places near the Sea, it raineth plentifully and often. Whereto we might add the latter testimony of Learned Mr. Greaves, in his accurate description of the Proposition.

on of the Pyramids.

Befide, Men hereby forget the relation of holy Scripture. Behold I will canfe it to rain a very great hail, such as hath not been in Egypt since the foundation thereof, even until now. Wherein God threatning such a rain as had not happened, it must be presumed they had been acquainted with some before, and were not ignorant of the substance, the menace being made in the circumstance. The same concerning hail is inferrible from Prosper Alpinus. Raissime niz, grando, it seldom snoweth or haileth. Where by we must concede that snow and hail do sometimes fall,

because they happen seldom.

Now this mistake ariseth from a misapplication of the bounds or limits of time, and an undue transition from one unto another; which to avoid, we must observe the punctual differences of time, and so distinguish thereof, as not to consound ot lose the one in the other. For things may come to pass, Semper, Plerumas, Sape, ant Nunquam, Aliquando, Rare; that is, Always, or Never, For the most part, or Sometimes, Osttimes, or Soldom. Now the deception is usual which is made by the misapplication of these; men presently concluding that to happen often, which happeneth but sometimes: that never, which happeneth but seldom; and that alway, which happeneth for the most part. So is it said, the Sun shines every day in Rhodes, because for the most part it faileth not. So we say and believe that a Camelion never eateth, but liveth only upon air, whereas indeed it is seen to eat very seldom, but many there are who have beheld it to feed on Flyes. And so it is said, that children born in the eighth moneth live not,

Exod, 9.

that is, for the most part, but not to be concluded alwaies: nor it seems in former ages in all places: for it is otherwise recorded by Aristotle concerning the births of Egypt.

Lastly, It is commonly conceived that divers Princes hath attempted to Lingua marie cut the Isthmus or tract of land which particle the Arabian and Mediterra. Egyptii.

mean Sea: but upon enquiry I find some difficulty concerning the place lia, 14-15; attempted; many with good authority affirming, that the intent was not immediately to unite these Seas, but to make a navigable chance between the Red Sea and the Nile, the marks whereof are extant to this day, it was first attempted by Sessific, after by Darins, and in a fear to drown the Country, deserted by them both; but was long after re-attempted and in some manner effected by Philadelphus. And so the grand Signion who is Lord of the Country, conveyes his Gallies into the Red Sea by the Nile; for he bringeth them down to Grand Caira where they are taken in pieces, carried upon Camels backs, and sejoyned together at Sues, his port and Naval station for that Sea; whereby in effect he acts the design of Cleopatra, who after the battle of Assism in a different way

would have conveyed her Gallies into the Red Ses.

And therefore that proverb to cut an Ishmus, that is, to take great rehmum perficiency, and effect nothing, alludeth not unto this attempt; but is by dees,

Erafmus applyed unto several other, as that undertaking of the Chidians to cut their Ishmus, but especially that of Cerists so unsuccessfully attempted by many Emperours. The Chidians were deterred by the

peremptors dissussion of spello, plainly commanding them to desist; for if Equinate shought it fit, he would have made that Country and Island at first. But this perhaps will not be thought a reasonable discouragement unto the activity of those spirits which endeavour to advantage nature by Art, and upon good grounds to promote any part of the universe; nor will the ill success of some be made a sufficient determent unto others; who know that many learned men affirm, that Islands were not from the begining that many have been made since by Art, that some Islands have been eat through by the Sea, and others out by the spade; And if policy would permit, that of Panama in America, were most worthy the attempt: it being but sew miles over, and would open a shorter cut unto the East

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epinet, and in the State Observation of the control of the Court.

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Indies and China.

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CHAP, IX.

of the Red Sea.

Onceary apprehensions are made of the Erythizan or Red Sea; most apprehending a material redness therein, from whence they derive its common denomination; and some to lightly conceiving hereof, as if it had no redness at all, are fain to recur unto other originals of its appellation. Wherein to deliver a diffinct account, we first opferve that without confideration of colour it is named the Arabian Gulph: The Hebrews who had belt reason to remember it; do call it Zuph, or the weedy Sea, because it wasfull of fedge, or they found it fo in their passage; the Mahometans who are now o ds thereof do know it by no other name then the Gulob

of Mecha a City of Arabia,

The stream of Anciquity deriveth its name from King Erythiru : fo Mightly conceiving of the nominal deduction from Redness, that they plainly deny there is any fuch accident in it. The words of Curtim are plain beyond Evalion, Ab Erythre rege sudstum eft nomen, propter quel ignari rubere agnas credunt; Of no more obscurity are the words of Philoftratus, and of later times, Sabelliens ; Stulte perfuafum eft vulge rubras alienbi effe maris aquas, quin ab Erpthrorege nomen pelago inditum. Of this opinion was Andraw Corfaline, Pliny, Solinus, Des Caffin, who although they denied not all reducis, yet did they rely upon the original from King Erythrus.

Others have fallen upon the like, or perhaps the same conceit under another appellation; deducing its name not from King Erythrus, but -Efan or Edom, whose habitation was upon the coasts thereof. Now Edom is as much as Engibres, and the red Sea no more then the Idamean; from whence the postericy of Edus removing rowards the Mediterranean coaft : according to their former nomination by the Greeks were called Phanicians or red men : and from a plantation and colony of theirs, an Island near Spain, was by the Greek describers termed Erithra, as is

declared by Strabo and Solinus.

Very many omitting the nominal derivation, do rest in the gross and liveral conception thereof, apprehending a real redness and constant colour of paris. Of which opinion are also they which hold the Sea receiveth a red and minious tincture from fprings, wells, and currents that fall into it; and of the same belief are probably many Christians, who conceiving the passage of the Israelites through this Sea to have been the type of Baptism, according to that of the Apoltle, All were baptized unto Mofes in the cloud, and in the S:a: for the better resemblance of the blood of Christ, they willingly received it in the apprehension of redness, and a colour agrecable

What the Red Sezis-

More exactly hereof Bocharsw and Mr. Dickinfon.

1 Cor. 10. 2.

agreeable unto its mystery: according unto that of Austin, Significant mare illud rubrum Baptismum Christi; unde nobie Baptismus Christi nif Aug in Iohan. Canquine Christi consecratus ?

But divers Moderns not confidering these conceptions: and appealing unto the Testimony of sense, have at last determined the point : concluding a redness herein, but not in the sense received. Sir Walter R aleish from his own and Portugal observations, doth place the redness of the Sea, in the reflection from red Islands, and the redness of the earth at the bottom: wherein Coral grows very plentifully, and from whence in great abundance it is transported into Europe. The observations of Alberquerque, and Stephanus de Gama (as from Johannes de Bairros. Fernandius de Cordova relateth) derive this redness from the colour of the fand and argillous earth at the bottom; for being a shallow Sea. while it rowleth too and fro, there appeareth a redness upon the water: which is most discernable in sunny and windy weather. But that this is no more than a feeming redness, he confirmeth by an experiment; for in the reddest part taking up a vessel of water, it differed not from the complexion of other Seas. Nor is this colour discoverable in every place of that Sea, for as he also observeth, in some places it is very green, in others white and yellow, according to the colour of the earth or fand at the bottom. And so may Philostratus be made out, when he faith, this Sea is blew; or Belloniss denying this redness, because he beheld not that colour about Sues; or when Corfalius at the mouth thereof could not discover the same.

Now although we have enquired the ground of redness in this Sea, vet are we not fully fatisfied: for what is forgot by many, and known by few, there is another Red Sea whose name we pretend not to make out from these principles; that is, the Persian Gulph or Bay, which diwideth the Arabian and Persian shore, as Pliny hath described it, Mare rubrum in dues dividitur sinus, is qui ab Oriente est Persicus appellatur; oras Solinus expresseth it, Qui ab Oriente eft Persicus appellatur, ex adverso unde Arabia est, Arabicus; whereto affenteth Suidas, Ortelius, and many more. And therefore there is no absurdity in Strabo when he delivereth that Tigris and Euphrates do fall into the Red Sea, and Fernandim de Cordova, justly defendeth his Countryman Seneca in that expreffion;

> Et qui renatum prorsus excipiens diem Tepidum Rubenti T grin immiscet freto.

Nor hath only the Persian Sea received the same name with the Arabian, but what is strange, and much confounds the distinction, the name thereof is also derived from King Erythrus; who was conceived to be buried in an Island of this Sea, as Dionysius, Afer, Curtius and Suidas do deliver

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Which were of no less probability than the other, if (as with deliver. the same authors Serabo affirmeth) he was buried neer Caramania bordes ring upon the Perfian Gulph. And if his Tomb was feen by Nearchu, it was not so likely to be in the Arabian Gulph; for we read that from the River Indus he came unto Alexander at Babylon, fome few days before his death. Now Babylon was feated upon the River Emphrates which runs into the Persian Gulph. And therefore however the Latin expresseth it in strabo, that Nearchus suffered much in the Arabian Sinne yet is the original war wiens, that is, the Gulf of Persia.

That therefore the Red Sea or Arabian Gulph received its name from personal derivation, though probable, is but uncertain; that both the Seas of one name should have one common denominator, less probable: that there is a gross and material redness in either, not to be affirmed: that there is an emphatical or appearing redness in one, not well to be denied. And this is sufficient to make good the Allegory of the Christis ans: and in this distinction may we justifie the name of the Black Sea, given unto Pontus Euxinus: the name of Xanthus, or the yellow River of Phrygia: and the name of Mar Vermeio, or the Red Sea in America.

CHAP. X.

Of the Blackness of Negroes.

TT is evident not only in the general frame of Nature, that things most I manifest unto sense, have proved obscure unto the understanding: But even in proper and appropriate Objects, wherein we affirm the sense cannot err, the faculties of reason most often fail us. Thus of colours in general, under whose gloss and vernish all things are seen, few or none have yet beheld the true nature; or positively set down their incontroulable causes. Which while some ascribe unto the mixture of the Elements, others to the graduality of Opacity and Light; they have left our endeavours to grope them out by twi-light, and by darknessalmost to discover that whose existence is evidenced by Light, The Chymists have laudably reduced their causes unto Sal, Sulphur, and ples of Colour Mercury; and had they made it out fo well in this, as in the objects of fmell and tast, their endeavours had been more acceptable: For whereas they refer Sapor unto Salt, and Odor unto Sulphur, they vary much concerning colour; fome reducing it unto Mercury, fome to Sulphur; others unto Salt. Wherein indeed the last conceit doth not oppress the former; and though Sulphur feem to carry the master-stroak, yet Salt

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may have a strong co-operation. For beside the fixed and terrestrious Salt, there is in natural bodies a Sal niter referring unto Sulphur; there is also a volatile or Armoniack Salt, retaining unto Mercury; by which Salts the colours or bodies are sensibly qualified, and receive degrees of suffre or obscurity, superficiality or profundity, fixation or volatility.

Their general or first Natures being thus obscure, there will be greater difficulties in their particular discoveries; for being farther removed from their simplicities, they fall into more complexed considerations: and so require a subtiler act of reason to distinguish and call forth their Thus although a man understood the general nature of colours, yet were it no easie Problem to resolve, Why Grass is green? Why Garlick, Molyes and Porrets have white roots, deep green leaves, and black feeds? Why feveral docks and forts of Rhubarb with yellow roots, fend forth purple flowers? Why also from Lactary or milky plants which have a white and lacteous juyce dispersed through every part, there arise flowers blew and yellow? Moreover, beside the specifical and first digressions ordained from the Creation, which might be urged to falve the variety in every species; Why shall the marvail of Pers produce its flowers of different colours, and that not once, or constantly, but every day, and variously? Why Tulips of one colour produce some of another, and running through almost all, should still escape a blew? And lastly, Why some men, yea and they a mighty and confiderable part of mankind, should first acquire and still retain the gloss and tincture of blackness? Which whoever strictly enquires, shall find no less of darkness in the cause, than in the effect it felf; there aris fing unto examination no such satisfactory and unquarrelable reasons. asmay confirm the causes generally received; which are but two in number. The heat and fcorch of the Sun; or the curse of God on Cham and his Posterity.

The first was generally received by the Ancients, who in obscurities had no higher recourse than unto Nature, as may appear by a Discourse concerning this point in Strabo. By Aristotle it teems to be implied in those Problems which enquire why the Sun makes men black, and not the fire? Why it whitens wax, yet blacks the skin? By the word Likings it self, applied to the memorablest Nations of Negroes, that is of a burnt and torrid countenance. The fancy of the Fable infers also the Antiquity of the opinion; which deriveth this complexion from the deviation of the Sun, and the conflagration of all things under Phaeton. But this opinion though generally embraced, was I perceive rejected by Aristobulus a very ancient Geographer; as is discovered by Strabo. It hath been doubted by several modern Writers, particularly by Ortelius; but amply and satisfactorily discussed as we know by no man. We shall therfore endeavour a full delivery hereof, declaring the grounds of doubt, and reasons of denial, which rightly understood, may, if not

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overthrow, yet shrewdly shake the security of this Affertion.

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And first, Many which countenance the opinion in this reason, do tacitly and upon consequence overthrow it in another. For whilst they make the River Senaga to divide and bound the Moors, so that on the South side they are black, on the other only tawny; they imply a secret causality herein from the air, place or river; and seem not to derive it from the Sun. The effects of whose activity are not precipitously ab.

rupted, but gradually proceed to their ceffations.

Secondly, If we affirm that this effect proceeded, or as we will not be backward to concede, it may be advanced and fomented from the feryour of the Sun; yet do we not hereby discover a principle sufficient to decide the question concerning other animals; nor doth he that affir. meth the heat makes man black, afford a reason why other animals in the fame habitations maintain a constant and and agreeable hue unto those in other parts, as Lions, Elephants, Camels, Swans, Tigers, Estriges, Which though in Athiopia, in the disadvantage of two Summers, and perpendicular Rayes of the Sun, do yet make good the complexion of their species, and hold a colourable correspondence unto those in mild. erregions. Now did this complexion proceed from heat in man, the fame would be communicated unto other animals which equally participate the Influence of the common Agent. For thus it is in the effects of cold, in Regions far removed from the Sun; for therein men are not only of fair complexions, gray-eyed, and of light hair; but many creatures exposed to the air, deflect in extremity from their natural colours; from brown, ruflet and black, receiving the complexion of Winter, and turning perfect white. Thus Olaus Magnus relates, that after the Autumnal Aquinox, Foxes begin to grow white, thus Michevins reporteth, and we want not ocular confirmation, that Hares and Partridges turn white in the Winter; and thus a white Crow, a proverbial rarity with us, is none unto them; but that inseparable accident of Porphyricis separated in many hundreds.

Thirdly, If the fervour of the Sun, or intemperate heat of clime did folely occasion this complexion, surely a migration or change thereof might cause a sensible, if not a total mutation; which not with standing experience will not admit. For Negroes transplanted, although into cold and slegmatick habitations, continue their hue both in themselves, and also their generations; except they mix with different complexions; whereby not with standing there only succeeds a remission of their tindures; there remaining unto many descents a strong shadow of their Originals; and if they preserve their copulations entire, they still maintain their complexions. As is very remarkable in the dominions of the Grand Signior, and most observable in the Moors in Brasilia, which transplanted about an hundred years past, continue the tinctures of their fathers unto this day. And so likewise fair or white people translated in hotter Countries receive not impressions amounting to this complexion, as

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hath been observed in many Europeans who have lived in the land of Negroes: and as Edvardus Lopes testifieth of the Spanish plantations, that they retained their native complexions unto his days.

Fourthly, If the fervour of the Sun were the fole cause hereof in Ethiopia or any land of Negroes; it were also reasonable that Inhabitants of the same latitude, subjected unto the same vicinity of the Sun, the same diurnal arch, and direction of its rayes, should also partake of the same hue and complexion, which notwith tanding they do not. For the Inhabitants of the same latitude in Asia are of a different complexion, as are the Inhabitants of Cambogia and Java, infomuch that some conceive the Negro is properly a native of Africa, and that those places in Afra inhabited now by Moors, are but the intrusions of Negroes arriving first from Africa, as we generally conceive of Madagascar, and the adjoyning Islands, who retain the same complexion unto this day. But this defect is more remarkable in America; which although subjected unto both the Tropicks, yet are not the Inhabitants black between, or near, or under either: neither to the South-ward in Brasilia, Chili, or Peru; nor yet to the Northward in Hispaniola, Costilia, del Oro, or Nicaragui. And although in many parts thereof there be at present swarms of Negroes serving under the Spaniard, yet were they all transported from Africa, fince the discovery of Columbus; and are not indigenous or proper natives of America.

Fiftbly, We cannot conclude this complexion in Nations from the vicinity or habitude they hold unto the Sun; for even in Africa they be Negroes under the Southern Tropick, but are not all of this hue either under or near the Northern. So the people of Gualata, Agades, Garamantes, and of Goaga, all within the Northern Tropicks are not Negroes; but on the other fide about Capo Negro, Cefala, and Madagascar, they are of a jetty black.

Now if to falve this Anomaly we say the heat of the Sun is more powerful in the Southern Tropick, because in the sign of Capricorn sals out the Prigeum or lowest place of the Sun in his Excentrick, whereby he becomes nearer unto them than unto the other in Cancer, we shall not absolve the doubt. And if any insist upon such niceties, and will presume a different effect of the Sun, from such a difference of place or vicinity; we shall ballance the same with the concernment of its motion, and time of revolution, and say he is more powerful in the Northern Hemisphere, and in the Apogeum; for therein his motion is slower, and so is heat respectively unto those habitations, as of duration, so also of more effect.

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For, though he absolve his revolution in 365 days, odd hours and minutes, yet by reason of Excentricity, his motion is unequal, and his course far longer in the Northern Semicircle, than in the Southern; for the latter he paffeth in a 178 days, but the other takes him a 187, that is, eleven days more. So is his presence more continued unto the Northern Inhabitants; and the longer day in Cancer is longer unto us, than that in Capricorn unto the Southern Habitator. Beside, hereby we only infer an inequality of heat in different Tropicks, but not an equality of effects in other parts subjected to the same. For, in the same degree, and as near the earth he makes his revolution unto the American. whose Inhabitants not withstanding partake not of the same effect. And if herein we feek a relief from the Dog-star, we shall introduce an effect proper unto a few, from a cause common unto many; for upon the fame grounds that Star should have as forcible a power upon America and Asia; and although it be not vertical unto any part of Asia, but only passeth by Beach, in terra incognita; yet is it so unto America, and vertically passeth over the habitations of Pern and Brasilia.

Sixthly, And which is very confiderable, there are Wegroes in Africa beyond the Southern Tropick, and some so far removed from it, as Geographically the clime is not intemperate, that is, near the Cape of good Hope, in 36 of the Southern Latitude. Whereas in the fame elevation Northward, the Inhabitans of America are fair; and they of Europe in Candy, Sicily, and some parts of spain, deserve not properly fo low a name as Tawny.

Lastly, Whereasthe Africans are conceived to be more peculiarly scorched and torrified from the Sun, by addition of driness from the soil, from want and defect of water; it will not excuse the doubt. which the Negroes posses, are not so void of Rivers and moisture, as is prefumed; for on the other side the mountains of the Moon, in that great tract called Zan ibar, there are the mighty Rivers of Suama, and Spirito Santo; on this fide, the great River Zaire, the mighty Nile and Niger; which do not only moisten and contemperate the air by their exhalations, but refresh and humectate the earth by their annual Inundations. Beside, in that part of Africa, which with all disadvantage is most dry, that is, in fituation between the Tropicks, defect of Rivers The drings of, and inundations, as also abundance of Sands, the people are not esteemed Negroes; and that is Lybia, which with the Greeks carries the name of all Africa. A region so desert, dry and sandy, that Travellers (as Leo reports) are fain to carry water on their Camels; whereof they find nota drop sometime in fix or seven days. Yet is this Country accounted by Geographers no part of terra Nigritarum, and Ptolomy placeth herein the Lenco Athiops, or pale and Tawny Moors.

Bybia.

Now

Now the ground of this opinion might be the visible quality of Blackness observably produced by heat, fire and smoak; but especially with the Ancients the violent esteem they held of the heat of the Sun, in the hot or torrid Zone; conceiving that part unhabitable, and therefore that people in the vicinities or frontiers thereof, could not escape without this change of their complexions. But how far they were mistaken in this apprehension, modern Geography hath discovered : And as we have declared, there are many within this Zone whose complexions descend not so low as unto blackness. And if we should strictly insist hereon. the possibility might fall into question; that is, whether the heat of the Sun, whose fervour may swart a living part, and even black a dead or or diffolying flesh; can yet in animals, whose parts are successive and in continual flux, produce this deep and perfect gloss of Blackness.

Thus having evinced, at least made dubious, the Sun is not the Au- The particular thor of this Blackness, how, and when this tincture first began is yot a causes of the Riddle, and positively to determine, it surpasseth my presumption. Seeing ness probably. therefore we cannot discover what did effect it, it may afford some piece offatisfaction to know what might procure it. It may be therefore confidered, whether the inward use of certain waters or fountains of peculiar operations, might not at first produce the effect in question. For, of the like we have records in Aristotle, Strabo and Pliny, who hath made a collection hereof, as of two fountains in Baotia, the one making Sheep white, the other black; of the water of Siberis which made Oxen black, and the like effect it had also upon men, dying not only the skin, but making their hairs black and curled. This was the conceit of Aristobulus; who received folittle fatisfaction from the other, or that it might be caused by heat, or any kind of fire, that he conceived it as reasonable to impute the effect untowater.

Secondly, It may be perpended whether it might not fall out the same way that Jacobs cattle became speckled, spotted and ring-straked, that is, by the Power and Efficacy of magination; which produceth effects in the conception correspondent unto the phancy of the Agents in generation; and sometimes affimilates the Idea of the Generator into a reality in the thing ingendred. For, hereof there pals for current many indifputed examples; so in Hippocrates we read of one, that from an intent view of a Picture conceived a Negro. And in the History of Heliodore of Moorish Queen, who upon aspection of the P. Eture of Andromeda, Vide plura conceived and brought forth a fair one. And thus perhaps might some say num, de viriwas the beginning of this complexion: induced first by Imagination, which bus imaginatiohaving once impregnated the feed, found afterward concurrent co-opera-nis. tion, web were continued by Climes, whose constitution advantaged the first impression. Thus Plotinus conceiveth white Peacocks first came in, Thus many opinion that from aspection of the Snow, weh lieth long in Northern Regions, and high mountains, Hawks, Kites, Beares, and other creatures be- Why Beares, com white; and by this way Austin conceiveth the devil provided, they never &c white in

Negroes black

wanted fome places.

wanted a white spotted Oxin Egypt; for such an one they worshipped,

and called Apis.

Thirdly, It is not indisputable whether it might not proceed from such a cause and the like foundation of Tincture, as doth the black Jaundies. which meeting with congenerous causes might settle durable inclinations. and advance their generations unto that hue, which were naturally before but a degree or two below it. And this transmission we shall the easier admit in colour, if we remember the like hath been effected in organical parts and figures; the Symmetry whereof being casually or purposely perverted; their morbofities have vigorously descended to their posterities, and that in durable deformities. This was the beginning of Macrocephali, or people with long heads; whereof Hippocrates hath clearly delivered himself: Cum primum editus est Infans, caput ejus tenellum manibus effingunt, & in longitudine adolescere cogunt; boc institutum primum hujusmodi, natura dedit vitium, successe vero temporis in naturam abiit, ut proinde instituto nibil amplius opus esset; semen enim genitale ex omnibus corporis partibus provenit, ex sanis quidem sanum, ex morbosis morbolum. Si igitur ex calvis calvi, ex caciis cacii, & ex distoriis, ut plurimum, difforti gignuniur, eademque in cateris formis valet ratio, quid prohibet cur non ex macrocephalis macrocephali gignantur? Thus as Aristotle observeth, the Deers of Arginusa had their ears divided; occasioned at first by flitting the ears of Deers. Thus have the Chineses little feet, most Negroes great Lips and flat Noses; And thus many Spaniards, and Mediterranean Inhabitants, which are of the Race of Barbary Moors (although after frequent commixture) have not worn out the Camor Nose unto this day.

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Artificial Negroes, or Gypsies acquire their complexion by anointing their bodies with Bacon and fat substances, and so exposing them to the Sun. In Guiny Moors and others, it hath been observed, that they frequently moisten their skins with fat and oyly materials, to temper the irksom driness thereof from the parching rayes of the Sun. Whether this practise at first had not some efficacy to ward this complexion,

may also be considered.

Lastly, If we still be urged to particularities, and such as declare how, and when the seed of Adam did first receive this cincture; we may say that men became black in the same manner that some Foxes, Squirrels, Lions, first turned of this complexion, whereof there are a constant fort in divers Countries; that some haughs came to have red Legs and Bils, that Crows became pyed: All which mutations however they began, depend on durable soundations; and such as may continue for ever. And if as yet we must farther define the cause and manner of this mutation, we must consess, in matters of Antiquity, and such as are decided by History, if their Originals and first beginnings escape a due relation, they fall into great obscurities, and such as suture Ages seldom reduce

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reduce unto a resolution. Thus if you deduct the administration of Angels, and that they dispersed the creatures into all parts after the flood, as they How fundry -had congregated them into Noahs Ark before; it will be no case question kinds of Anito resolve, how several forts of animals were first dispersed into Islands, be found in and almost how any into America : How the venereal Contagion began Islands. in that part of the earth, fince history is filent, is not easily resolved by Philosophy. For whereas it is imputed unto Authropophagy, or the eating of mans flesh; that cause hath been common unto many other Countries, and there have been Canibals or men eaters in the three other parts of the world, if we credit the relations of Ptolomy, Strabo and Pling. And thus if the favourable pen of Mofes had not revealed the confusion of tongues, and positively declared their division at Babel; our disputes concerning their beginning had been without end; and I fear we must have neris solves left the hopes of that decision unto Elias.

dubium,

And if any will yet infift, and urge the question farther still upon me. I fhall be enforced unto divers of the like nature, wherein perhaps I shall recive no greater satisfaction. I shall demand how the Camels of Battria cameto have two bunches on their backs, whereas the Camels of Arabia in all relations have but one? How Oxen in some Countries began and continue gibbous or bunck-back'd? what way those many different shapes. colours, hairs, and natures of Dogs came in? how they of some Countries became depilous, and without any hair at all, whereas fome forts in excels abound therewith? How the Indian Harecame to have a long tail, whereas that part in others attains no higher then a scut? How the hogs of Myria which Aristotle speaks of, became solipedes or whole-hoofed. whereas in other parts they are bifulcous, and described cloven-hoofed by God himself? All which with many others must needs feem strange unto those that hold there were but two of the unclean fort in the ark; and are forced to reduce these varieties to unknown originals.

However therefore this complexion was first acquired, it is evidently How the commaintained by generation, and by the tincture of the skin as a spermatical plexion of the part traduced from father unto Son; fo that they which are ftrangers con- be propagated. mach it not, and the Natives which transmigrate, om't it not without commixture, and that after divers generations. And this affection (if the flory were true) might wonderfully be confirmed, by what Maginus and and others relate of the Emperour of Athiopia, or Prester John, who derived from Solomon is, not yet descended into the hue of his Country, but remains a Mulatta, that is, of a Mongril complexion unto this day. Now although we conceive this blackness to be seminal, yet are we not of Herodotus conceit, that their feed is black. An opinion long ago rejected by Aristotle, and fince by fense and enquiry. His affertion against the Historian was probable, that all feed was white; that is without great controversie in viviporous Animals, and such as have Testicles, or preparing wesfels wherein it receives a manifest dealbation. And not only in them. but (for ought I know) in Fishes not abating the seed of Plants, whereof

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at least in most though the skin and covering be black, yet is the seed and fructifying part not so: as may be observed in the seeds of Onyons, Pyonis and Basil. Most controvertible it seems in the spawn of Frogs, and Lotters, whereof notwithstanding at the wery first the spawn is white, contracting by degrees a blackness, answerable in the one unto the colour of the shell, in the other unto the Porwigle or Tadpole; that is that Animals which first proceedeth from it. And thus may it also be in the generation and sperm of Negroes; that being first and in its naturals white, but upon separation of parts, accidents before invisible become apparent; there arising a shadow or dark efflorescence in the out-side; whereby not only their legitimate and simely births, but their abortions are also dusky, before they have felt the scorch and servor of the Sun.

CHAP. XI.

Of the same.

Second opinion there is, that this complexion was first a curse of God derived unto them from Cham, upon whom it was inflicted for all covering the nakedness of Noah. Which notwithstanding is sooner affirmed then proved, and carrieth with it sundry improbabilities. For first, if we derive the curse on Cham, or in general upon his posterity, we shall denigrate a greater part of the earth then was ever so conceived; and not only paint the Æthiopians and reputed sons of Cush, but the people also of Egypt, Arabia, Asyria and Chaldea; for by this race were these Countries also peopled. And if concordantly unto Berosus, the fragment of Cato de Originibus, some things of Halicarnasseus, Macrobius, and out of them of Leandro and Annius, we shall conceive of the travels of Camese or Cham; we may introduce a generation of Negroes as highes Italy; which part was never culpable of desormity, but hath produced the magnified examples of beauty.

Secondly, The curse mentioned in Scripture was not denounced upon Cham, but Canaan his youngest son, and the reasons thereof are divers. The first, from the Jewish Tradition, whereby it is conceived, that Canaan made the discovery of the nakedness of Noah, and notified it unto Cham. Secondly, to have cursed Cham had been to curse all his posterity, whereof but one was guilty of the fact. And lastly, he spared Cham, because he had blessed him before. Now if we confine this curse unto Canaan and think the same fulfilled in his posterity; then do we induce this complexion on the Sidonians, then was the promised land a tract of Negroes;

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For from Canaan were descended the Canaanites, Jebufites, Amorites,

Gergazites and Hivites, which were possessed of that land.

Thirdly, Although we should place the original of this curse upon one of the fons of Cham, yet were it not known from which of them to derive it. For the particularity of their descents is imperfectly set down by accountants, nor is it diffinctly determinable from whom thereof the Achiosians are proceeded. For whereas these of Africa are generally effeemed to be the Issue of Chus, the elder son of Cham, it is not so easily made out. For the land of Chu, which the Septuagint translates Athiopia, makes no part of Africa, nor is it the habitation of Blackmores, but the Country of Arabia, especially the Happy and Stony possessions and Colonics of all the fons of Chu, excepting Nimrod, and Havilah: poffessed and planted wholly by the children of Chus, that is, by Sabtab and Raamah, Sabtasha, and the fons of Raamah, Dedan, and Sheba, according unto those names the Nations of those parts have received their denominations, as may be collected from Pliny and Ptolomy; and as we are informed by credible Authors, they hold a fair Analogy in their names, even unto our days. So the wife of Mofes translated in Scripture an Athiopian, and so confirmed by the fabulous relation of Fosephus, was none of the daughters of Africa, nor any Negroe of Athiopia, but the daughter of Jethro, Prince and Priest of Madian, which was a part of Arabia the stony, bordering upon the Red Sea. So the Queen of Sheba came not unto Solomon out of Ethiopia, but from Arabia, and that part thereof which bore the name of the first planter, the son of Chus. whether the Eunuch which Philip the Deacon baptised, were servant unto Candace Queen of the African Athiopia (although Damianus a Goes . Codignue; and the Æthiopick relations averr) is yet by many, and with frong suspicions doubted. So that Army of a million, which Zerab King of Athiopia is faid to bring against Afa, was drawn out of Arabia. and the plantations of Chus; not out of Athiopia, and the remote habitations of the Moors. For it is faid that Afa pursuing his victory, took from him the City Gerar : now Gerar was no City in or near Æthiopia. but a place between Cadefh and Zur, where Abraham formerly Sojourned. Since thereof these African Ethiopians are not convinced by the common acception to be the fons of Chus, whether they be not the posterity of Phut or Mizraim, or both, it is not affuredly determined. For Mizraim, he possessed Egypt, and the Fast parts of Africa. From Lubym his son came the Lybians, and perhaps from them the Æibiopians. Phut poffeffed Mauritania, and the Western parts of Africa and from these perhaps descended the Moors of the West, of Mandinga, Melegnette and Gnine. But from Canaan, upon whom the curse was pronounced, none of these had their originall; for he was restrained unto Canaan and Syria; although in after Ages many Colonies difperfed, and some thereof upon the coafts of Africa, and prepoffessions of his elder brothers.

Fourthly, To take away all doubt or any probable divarication, the

curse is plainly specified in the Text, nor need we dispute it, like the mark of Cain; Servius serverum erit fratribus suis, Cursed be Canaan, a servant of servants shall he be unto his brethren; which was after suffilled in the conquest of Canaan, subdued by the Israelites, the posterity of Sem. Which Prophecy Abraham well understanding, took an oath of his servant not to take a wife for his son Isaac out of the daughters of the Canaanites; and the like was performed by Isaac in the behalf of his Son Isaac has for Cham and his other sons, this curse attained them not; for Nimrod the son of Chas set up his kingdom in Babylon, and erected the sirft great Empire; Mizraim and his posterity grew mighty Monarchs in Egypt; and the Empire of the Echiopians hath been as large as either. Nor did the curse descend in generall upon the posterity of Canaan: for the Sidonians, Arkites, Hamathites, Sinites, Arvadites, and Zemerites seem exempted. But why there being eleven Sons, five only were condemned and

fix escaped the malediction, is a fecret beyond discovery.

Laftly, Whereas men affirm this colour was a Curfe, I cannot make out the propriety of that name, it neither feeming fo to them, nor reasonably unto us; for they take so much content therein, that the efteem deformity by other colours, describing the Devil, and terrible objects, white. And if we ferioufly confult the definitions of beauty, and exactly perpend what wife men determine thereof, we shall not apprehend a curse, or any defor-For first, some place the effence thereof in the proportion of mity therein. parts, conceiving it to confift in a comely commensurability of the whole unto the parts, and the parts between themselves: which is the determination of the best and learned Writers. Now hereby the Moors are not excluded from beauty: there being in this description no consideration of colours, but an apt connexion and frame of parts and the whole. Others there be, and those most in number, which place it not only in proportion of parts, but also in grace of colour. But to make Colour effential unto Beauty, there will arise no slender difficulty: For Aristotle in two definitions of pulchritude, and Galen in one, have made no mention of colour, Neither will it agree unto the Beauty of Animals: wherein notwithstanding there is an approved pulchritude. Thus horses are handsome under any colour, and the symmetry of parts obscures the consideration of complexions Thus in concolour animals and fuch as are confined unto one colour, we measure not their Beauty thereby : for if a Crow or Black-bird grow white, we generally account it more pretty; And in almost a monstrofity descend not to opinion of deformity. By this way likewise the Moors escape the curse of deformity : there concurring no stationary colour, and sometimes not any unto Beauty.

The Platonick contemplators reject both these descriptions sounded upon parts and colours, or either: as M. Leothe Jew hath excellently discoursed in his Genealogy of Love, defining beauty a formal grace, which delights and moves them to love which comprehend it. This grace say they, discoverable outwardly, is the resplendor and Ray of some interiour and

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invisible Beauty, and proceedeth from the forms of compositions amiable. Whose faculties if they can aptly contrive their matter, they beget in the subject an agreeable and pleasing beauty; if over-ruled thereby, they evidence not their perfections, but run into deformity. For seeing that out of the same materials, Thersites and Paris, Beauty and monstrosity may be contrived; the forms and operative faculties introduce and determine their perfections. Which in natural bodies receive exactness in every kind, according to the first Idea of the Creator, and in contrived bodies the phancy of the Artificer. And by this consideration of Brauty, the Moorsalso are not excluded, but hold a common share therein with all mankind.

Lastly, In whatsoever its Theory consisteth, or if in the general, we allow the common conceit of symmetry and of colour, yet to descend unto fingularities, or determine in what symmetrey or colour it consisted, were a dippery defignation. For Beauty is determined by opinion, and feems to have no effence that holds one notion with all; that feeming beauteous unto one, which hath no favour with another; and that unto every one, according as custome hath made it natural, or sympathy and conformity of minds shall make it seem agreeable. Thus flat noses seem comely unto the Moor, an Aquiline or hawked one unto the Persian, a large and prominent nose unto the Romane; but none of all these are acceptable in our opinion. Thus some think it most ornamental to wear their Bracelets on their Wrests, others say it is better to have them about their Ancles; some think it most comely to wear their Rings and Jewels in the Ear, others will have them about their Privities; a third will not think they are compleat except they hang them in their lips, cheeks, or nofes. Thus Homer to let off Minerva, calleth her yawxams, that is, gray or light-blew eyed: now this unto us feems far less amiable then the black. Thus we that are of contrary complexions accuse the blackness of the Moors as ugly: But the Spouse in the Cantieles excuseth this conceit, in that description of hers, I am black, but comely. And howfoever Cerberns, and the furies of hell be described by the Poets under this complexion, yet in the beauty of our Sayiour blackness is commended, when it is said, his locks are bushie and black as a Rayen. So that to inferr this as a curse, or to reason it as a deformity, is no way reasonable; the two foundations of beauty, Symmetry and complexion receiving such various apprehensions; that no deviation will be expounded so high as a curse or undeniable deformity, without a manifest and confessed degree of monstrofity.

Lastly, It is a very injurious method unto Philosophy, and a perpetual promotion of ignorance, in points of obscurity; nor open unto easie considerations, to fall upon a present resuge unto Miracles; or recurrento immediate contrivance, from the insearchable hands of God. Thus in the conceit of the evil odor of the Jews, Christians without a f reher research into the verity of the thing, or inquiry into the cause, draw up a judgement upon them from the passion of their Sayiour. Thus in the

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wondrous effects of the clime of Ireland, and the freedom from all venemous creatures, the credulity of common conceit imputes this immunity unto the benediction of S. Patrick, as Beda and Gyraldus have left recorded. Thus the As having a peculiar mark of a cross made by a black list down his back, and another athwart, or at right angels down his shoulders; common opinion ascribes this figure unto a peculiar fignation; since that beast had the honour to bear our Saviour on his back. Certainly this is a course more desperate then Antipathies, Sympathies, or occult qualities; where in by a final and satisfactive discernment of faith, we lay the last and particular effects upon the first and general cause of all things; whereas in the other, we do but palliate our determinations, untill our advanced endeavours do totally reject, or partially salve their evasions.

CHAP. XII.

A Digression concerning Blackness.

There being therefore two opinions repugnant unto each other, it may not be presumptive or skeptical to doubt of both. And because we remain imperfect in the general Theory of colours, we shall deliver at present a short discovery of blackness; wherein although perhaps we afford no greater satisfaction then others, yet shall we Emperically and sensibly discourse hereof; deducing the causes of Blackness from such Originals in nature, as we do generally observe things are denigrated by Art. And herein I hope our progression will not be thought unreasonable, for Art being the imitation of Nature, or Nature at the second hand: it is but sensible expression of effects dependant on the same; though more removed causes: and therefore the works of the one may serve to discover the other. And though colours of bodies may arise according to the receptions, refraction, or medification of Light; yet are there certain materials which may dispose them unto such qualities.

And first, Things become black by a sooty and suliginous matter proceeding from the Sulphur of bodies torristed; not taking fuligo strictly, but in opposition unto atalist that is any kind of vaporous or madefying exerction; and comprehending analymians, that is as Aristotle defines it, a separation of moist and dry parts made by the action of heat or fire, and colouring bodies objected. Hereof in his Meteors, from the qualities of the subject he raiseth three kinds; the exhalations from signeous and lean bodies, as bones, hair, and the like he calleth winds, fumnes, from sat bodies, and such as have not their fatness conspicuous or separated he ter-

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meth alyrus, fuligo, as wax, rofin, pitch, or turpentine; that from unctuous bodies, and fuch whose oyliness is evident, he named wiora or nider. Now every one of these do black bodies objected unto them, and are to be conceived in the footy and fuliginous matter expressed.

I fay, proceeding from the fulphur of bodies torrified, that is the ovile fat, and unctuous parts wherein confift the principles of flammability. Not pure and refined sulphur, as in the Spirits of wine often rectified ; but containing terrestrious parts, and carrying with it the volatile falt of the body, and fuch as is diffinguishable by tafte in foot; nor vulgar and usual fulphur, for that leaves none or very little blackness, except a metalline

body receive the exhalation.

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I fay, corrified, findged, or suffering some impression from fire : thus are bodies casually or arcificially denigrated, which in their naturals are of another complexion; thus are Charcoals made black by an infection of their own suffitus, so is it true what is affirmed of combustible bodies. Adufta nigra, perufta alba; olack at first from the fuliginous tincture . which being exhaled they become white, as is perceptible in aftes. and so doth fire cleanse and purific bodies, because it consumes the sulphureous parts, which before did make them foul: and therefore refines those bodies which will never be mundified by water. Thus Camphire of a white fubstance, by its fuligo affordeth a deep black. So is pitch black . although it proceed from the same tree with Rosin, the one distilling forth, the other forced by fire. So of the sufficus of a torch, do Painters make a velvet black : so is lamp-black made : so of burnt Harts-horn a sable ; so is Bacon denigrated in chimnies: so in Feavers and hot distempers from choler adust is caused a blackness in our tongues, teeth-and excretions : so are ustilago, brant corn and trees black by blasting; so parts cauterized, gangrenated, fiderated and mortified, become black, the radical moisture. or vital sulphur suffering an extinction, and smothered in the part effected. So not only actual but potential fire: not burning fire, but also corroding water will induce a blackness. So are Chimnies and Furnaces generally black, except they receive a clear and manifest sulphur: for the smoak of sulphur will not black a paper, and is commonly used by women to whiten Tiffinies, which it performeth by an acide vitriolous, and penetrating Whythesmoak spirit ascending from it, by reason whereof it is not apt to kindle any thing of pure Sulnor will it easily light a Candle, untill that spirit be spent, and the flame phur blacks approacheth the match. This is that acide and piercing spirit which with such activity and compunction invideth the brains and nostrils of those that receive it. And thus when Bellonius affirmeth that Charcoals made out of the wood of Oxycedar are white, Dr. Jordan in his judicious Discourse of mineral waters yeeldeth the reason, because their vapors are rather sulphureous then of any other combustible substance. So we see that Tinby coals will not black linnen being hanged in the smoak thereof, but rather whiten it, by reason of the drying and penetrating quality of sulphur, which will make red Roses white. And therefore to conceive a

general blackness in Hell, and yet therein the pure and refined flames of tulphur, is no Philosophical conception, nor will it well confift with the real effects of its nature.

These are the advenient and artificial wayes of denigration, answerably whereto may be the natural progress. These are the wayes whereby culturary and common fires do operate, and correspondent hereunto may be the effects of fire elemental. So may Bitumen, Coals, Jet, Black-lead, and divers mineral earths become black; being either fuliginous concretions in the earth, or suffering a scorch from denigrating Principles in their formation. So men and other animals receive different tine tures from constitution and complexional efflorescences, and descend still lower, as they partake of the suliginous and denigrating humour. And so may the Ethiopians or Negroes become coal-black, from suliginous efflorescences and complexional tine tures arising from such probabilities, as we have

dition or mixture, that is a vitriolate or copperofe quality conjoyning

with a terrestrious and astringent humidity; for so is Atramentum

declared before.

The second way whereby bodies become black, is an Atramentous con-

Scriptorium, or writing Ink commonly made by copperofe cast upon a decoction or infusion of galls. I say a virriolous or copperous quality; for vitriol is the active or chief ingredient in Ink, and no other falt that I know will strike the colour with galls; neither Alom, Sal-gem, Nitte, nor Armoniack. Now artificial copperofe, and fuch as we commonly ufe, is a rough and acrimonious kind of falt drawn out of ferreous and eruginous earths, partaking chiefly of Iron and Copper; the blew of Copper, the green most of Iron: Nor is it unusual to dissolve fragments of Iron in the liquor thereof, for advantage in the concretion. I fay, a terrestriousor aftringent humidity; for without this there will ensue no tincture; for Copperose in a decoction of Lettuce or Mallows affords no black, which with an aftringent mixture it will do, though it be made up with oyl, as in p. inting and painting Ink. But whereas in this composition we use only Nut-gals, that is an excrescence from the Oak, therein we follow and beat upon the old receit; for any plant of austere and stip ick parts will suffice, as I have experimented in Briftorte, Myrobolans, Myrtus Brabantica, Balauftium and Red-Roses. And indeed, most decoctions of astringent

what the common Coppesofe is-

foot.

Now if we enquire in what part of vitriol this Atramental and denigrating condition lodgeth, it will feem especially to lie in the more fixed falt thereof; For the phlegm or aqueous evaporation will not denigrate; nor yet spirits of vitriol, which carry with them volatile and nimbler Salt: For if upon a decoction of Copperose and gall, be poured the spirits or oyl of vitriol, the liquor will relinquish his blackness; the gall and parts of

plants, of what colour foever, do leave in the Liquor a deep and Muscadine red: which by addition of vitriol descends into a black: and so Dioserides in his receit of Ink, leaves out gall, and with copperose makes use of

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the copperose precipitate unto the bottom, and the Ink grow clear again; which it will not so easily do in common Ink, because that gum is dissolved therein, which hindereth the separation. But Colcothar or vitriol burnt, though unto a redness containing the fixed salt, will make good Ink; and so will the Lixivium, or Lye made thereof with warm water; but the Terra or Inspid earth remaining, affords no black at all, but serves in many things for a gross and useful red. And though Spirits of vitriol, projected upon a decoction of gals, will not raise a black, yet if these spirits be any way fixed, or return into vitriol again, the same will act their former

parts and denigrate as before.

And if we yet make a more exact enquiry, by what this falt of vitriol more peculiarly gives this colour, we shall find it to be from a metalline condition, and especially an Iron Property or ferreous participation. For blew Copperose which deeply partakes of the copper will do it but weakly, Verdigrise which is made of Copper will not do it at all, But the filings of Iron infused in vinegar, will with a decoction of gals make good Ink. without any Copperofe at all; and so will insusion of Load-stone; which is of affinity with Iron. And though more conspicuously in Iron, yet such Calcanthous or Atramentous quality, we will not wholly reject in other mettals; whereby we often observe black tinctures in their folutions. Thus a Lemmon, Quince or sharp Apple cut with a knife becomes immediately black: And from the like cause, Artichokes; so sublimate beat up with whites of eggs, if touched with a knife, becomes incontinently black. Aqua fortis, whose ingredient is vitriol, will make white bodies black. So leather dreffed with the bark of Oak, is eafily made black by a bare solation of Copperofe. So divers Mineral waters and fuch as participate of Iron, upon an infusion of gals, become of a dark colour, and entering upon black. So steel infused, makes not only the liquor duskie, but in bodies wherein it concurs with proportionable tinctures makes also the excretions black, And so also from this vitriolous quality Mercurius dulcis, and virtiol vomitive occasion black ejections. But whether this denigrating quality in Copperose proceedeth from an Iron participation, or rather in from from a vitriolous communication; or whether black tinctures from metallical bodies be not from vitriolous parts contained in their fulphur, fince common sulphur containeth also much vitriol, may admit consideration. However in this way of tincture, it feemeth plain, that Iron and Vitriol are the powerful Denigrators.

Such a condition there is naturally in some living creatures. Thus that black humour by Aristotle named %, and commonly translated Airamentum, may be occasioned in the Cuttle-fish. Such a condition there is naturally in some Plants, as Black-berries, Walnut-rinds, Black-cherries, whereby they excinguish inflammations, corroborate the stomack, and are esteemed specifical in the Epilepsie. Such an atramentous condition there is to be found sometime in the blood, when that which some call Acetum, others Vitriolum, concurs with parts prepared for this tincture. And so

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from these conditions the Moors might possibly become Negroes, receiving Atramentous impressions in some of those wayes, whose possibility is byus declared.

How a vitriolous quality may be in hying bodies,

Nor is it ftrange that we affirm there are vitriolous parts, qualities, and even at some distance Vitriol it felf in living bodies ; for there is a sower Riptick falt diffused through the Earth, which passing a concoction in plants, becometh milder and more agreeable unto the sence, and this is that vegitable vitriol, whereby divers plants con:ain a gratefull (harpneis, as Lemmons, Pomegranats, Cherries, or an austere and inconcoded roughnels, as Sloes, Medlars and Quinces. And that not only vitriolisa cause of blackness, but that the salts of natural bodies do carry a powerfull Broke in the tincture and vernish of all things, we shall not deny, if we contradict not experience, and the visible art of Dyars; who advance and graduate their colours with Salts. For the decoctions of simples which bear the vifible colours of bodies decorted, are dead and evanid, without the commixtion of Alum, Argol, and the like. And this is also apparent in So Cinaber becomes red by the acide exhalation Chymical preparations. of fulphur, which otherwise presents a pure and niveous white. So spins of Salt upon a blew paper make an orient red. So Tartar or vitriol upon an infusion of violets affords a delightfull crimson. Thus it is wonderful what variety of colours the spirits of Saltpeter, and especially, if they be kept in a glass while they pierce the fides thereof; I fay, what Orient greens they will project : from the like spirits in the earth the plants there of perhaps acquire their verdure. And from fuch falary irradiations may those wondrous varieties arise, which are observable in Animals, as Mal. lards heads, and Peacoks feathers, receiving intention or alteration atcording as they are presented unto the light. Thus Saltpeter, Ammoniat and Mineral spirits emit delectable and various colours; and common Aqua fortis will in some green and narrow mouthed glasses, about the yerges thereof, fend forth a deep and Gentianella blew.

Thus have we at last drawn our conjectures unto a period; wherein if our contemplations afford no satisfaction unto others, I hope our attempts will bring no condemnation on our selves (for besides that adventures in knowledge are laudable, and the assayes of weaker heads afford oftentions improveable hints unto better) although in this long journey we miss the intended end; yet are there many things of truth disclosed by the way; and the collaterall verity, may unto reasonable speculations some what

requite the capital indiscovery.

Whence the colours of Plants, &c., may arife,

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CHAP. XIII.

of Gypfies.

Reat wonder it is not we are to feek in the original of Athiopians Jand natural Negroes, being also at a loss concerning the Original of Gypfies and counterfeit Moors, observable in many parts of Europe, Afia, and Africa.

Common opinion deriveth them from Egypt, and from thence they derive themselves, according to their own account hereof, as Munster discovered in the letters and pass which they obtained from Sigismund the Emperour ; that they first came out of leffer Egypt, that having defected Opinions from the Christian rule, and relapsed unto Pagan rites, some of every concerning the original of family were enjoyned this penance to wander about the world; or as Gypficsa Aventinus delivereth, they pretend for this vagabond course, a judgement of God upon their forefathers, who refused to entertain the Virgin Mary and Iesus, when the fled into their Country.

Which account notwithstanding is of little probability : for the generall Fornand, de Aream of writers, who enquire into their originall, infift not upon this; Cordua didafand are fo little fatisfied in their descent from Egypt, that they deduce them cal. multipl, from feveral other nations: Polydore Virgil accounting them originally Sprians, Philippus Bergomas fetcheth them from Chaldes, Aneas Sylvins from fome part of Tartary, Bellonius no further then Walachia and Bulgaria, nor Aventinus then the confines of Hungaria.

That they are no Egyptians, Bellonius maketh evident : who met great Observat t. 2. droves of Gypfies in Egypt, about Gran Cairo, Matærea, and the villages on the banks of Nilus, who notwithstanding were accounted strangers unto that Nation, and wanderers from forreign parts, even as they are effectmed with us.

That they came not out of Egypt is also probable, because their fieft Gypsies fick appearance was in Germany, fince the year 1400, nor were they observed Germany, before in other parts of Europe, as is d ducible from Munfter, Genebrard,

Crantifius and Ortilius. But that they first fee out not far from Germany, is also probable from their language, which was the Sclavonian tongue; and when they wandred afterward into France, they were commonly called Bohemians, which name is fill retained for Gypfies. And therefore when Crantfius delivereth, they fieft appeared about the Baltick Sea, when Bellonius deriveth them from Bulgaria and Walachia, and others from about Hungaria, they speak not repugnantly hereto: for the language of those Nations was Schronian, ac least some dialect thereof.

But of what nation loever they were at first, they are now almost of all ; Ddd 2

Bellon. obserwas l. a. What use the Grand Signios maketh of Gyptics,

affociating unto them some of every country where they wander: whene they will be lost, or whether at all again, is not without some doubt: so unsetted nations have out-lasted others of fixed habitations: and though Gypsies have been banished by most Christian Princes, yet have they found some countenance from the great Turk, who sufferest them to live and maintain publick Stews near the Imperial City in Pera, of whom he often maketh a politick advantage, imploying them as spies into other nations, under which title they were banished by Charles the sist.

CHAP. XIV.

Of some others.

gures of heaven affigned unto Constellations, which do not seem to answer them, either in Greek or Barbarick Spheres: yet equall incongruities have been commonly committed by Geographers and Historians, in the figurall resemblances of several regions on earth; While by Livy and Julius, Rassicus the Island of Britain is made to resemble a long dish or two-edged ax; Italy by Numatianus to be like an Oak-leas: and Spain an Ox-hide; while the phancy of Strabo makes the habitated earth like a cloak, and Dionysius Afer will have it like a sling: with many others observable in good writers, yet not made out from the letter or signification; acquitting Astronomy in their sigures of the Zodiack: wherein they are not justified unto strict resemblances, but rather made out from the effects of Sun or Moon in these several portions of heaven, or from peculiar influences of those constellations, which some way make good their names.

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Tunelin.in Sph. t. de Sacro bofcocap. 2;

Which notwithstanding being now authentick by prescription, may be retained in their naked acceptions, and names translated from substances known on earth. And therefore the learned Hevelius in his accurate Selenography, or description of the Moon, hath well translated the known appellations of Regions, Seas and Mountains, unto the parts of that Luminary: and rather then use invented names or humane denominations, with witty congruity hath placed Mount Sinai, Taurus, Maotis Palm, the Mediterranean Sea, Mauritania, Sicily and Asia Minor in the Moon.

The Cabala of the Stars.

More hardly can we find the Hebrew letters in the heavens, made out of the greater and lefter Stars which put together do make up words, wherein Cabalificall Speculators conceive they read the events of future things; and how from the Stars in the head of Mednia, to make out the word

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Charab; and thereby desolation prefignified unto Greece or Javan, nu- Greffarel out merally characterized in that word, requireth no rigid reader. of R. Chomer.

It is not easie to reconcile the different accounts of longitude, while in modern tables the hundred and eighty degree, is more then thirty degrees beyond that part, where Ptolomy placeth an 180. Nor will the wider and more Western term of Longitude, from whence the Moderns begin Athan. Rivtheir commensuration, sufficiently salve the difference. The ancients cher in proabegan the measure of Longitude from the fortunate Islands or Canaries, the Moderns from the Azores or Islands of S. Michael; but fince the Azores are but fifteen degrees more West, why the Moderns should reckon 180. where Ptolomy accounteth above 220, or though they take in 15 degrees at Robertus Huss the West; why they should reckon 30 at the East, beyond the same mea- de globis, sure, is yet to be determined; nor would it be much advantaged, if we should conceive that the compute of Ptolomy were not so agreeable unto the

Canaries, as the Hesperides or Islands of Cabo Verde.

Whether the compute of moneths from the first appearance of the Moon, which divers nations have followed, be not a more perturbed way, then that which accounts from the conjunction, may feem of reasonable doubt ; Heyel, Selenog. not only from the uncertainty of its appearance in foul and cloudy weather, cap. 9. but unequal time in any; that is sooner or later, according as the Moon when the shall be in the signs of long descention, as Pisces, Aries, Taurus, in Moon will be the Perigeum or swiftest motion, and in the Northern Latitude : whereby feen on the scmetimes it may be seen the very day of the change, as will observably first day of the happen 1654. in the moneths of April and May? or whether also the change. compute of the day be exactly made, from the visible arising or setting of the Why the Sun Sun, because the Sun is sometimes naturally set, and under the Horizon, is seen after it when visibly it is above it ; from the causes of refraction, and such as make rally under us behold a piece of filver in a bafin, when water is put upon it, which we the Horizon. could not discover before, as under the verge thereof.

Whether the globe of the earth be but a point, in respect of the Stars and Firmament, or how if the rayes thereof do fall upon a point, they are received in such variety of Angles, appearing greater or leffer from dif-

ferences of refraction?

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Whether if the motion of the Heavens should cease a while, all things would instantly perish? and whether this affertion doth not make the frame of sublunary things, to hold too loofe a dependenc, upon the first To what the and conserving cause? at least impute too much unto the motion of the motion of the heavens, whose eminent activities are by hear, light and influence, the Heavens motion it felf being barren, or chiefly ferving for the due application of ferveth, Mes. celestial virtues unto sublunary bodies as Cabens hath learnedly observed ?

Whether Comets or blazing Stars be generally of fuch terrible effects, as elder times have conceived them; for fince it is found that many, from whence these predictions are drawn, have been above the Moon; why they may not be qualified from their politions, and aspects which they hold with stars of favourable natures; or why fince they may be conceived

Enquiries into Vulgar Book VI.

to arise from the effluviums of other Stars, they may not retain the benignity of their Originals; or fince the natures of the fixed Stars, are astrologically differenced by the Planets, and are esteemed Martial or Jovial, according to the colours whereby they answer these Planets; why although the red Comets do carry the portensions of Mars, the brightly-white should not be of the Influence of Jupiter or Venus, answerably unto Cor Scorpii and Arcturus; is not absurd to doubt.



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THE SEVENTH BOOK:

Concerning many Historical Tenents generally received, and some deduced from the history of holy Scripture.

CHAP. I.

of the Forbidden Fruit.



Hat the Forbidden fruit of Paradise was an Apple, is commonly believed, confirmed by Tradition, perpetuated by Writings, Verses, Pictures; and some have been so bad Prosodians, as from thence to derive the Latine word malum, because that fruit was the first occasion of evil; wherein not- Opinions, of withstanding determinations are presumptuous, what kind the and many I perceive are of another belief. For forbidden fome have conceived it a Vine; in the mystery fruit was,

of whose fruit lay the expiation of the transgression: Goropius Becanus reviving the conceit of Barcephan, peremptorily concludeth it to be the Indian Fig-tree; and by a witty Allegory labours to confirm the same. Again, some fruits pass under the name of Adams apples, which in common acception admit not that appellation; the one described by Mathiolus under the name of Pomum Adami, a very fair fruit, and not unlike a Citron, but somewhat rougher, chopt and cranied, vulgarly conceived the marks of Adams teeth. Another, the fruit of that plant which Serapion termeth Musa, but the Eastern Christians commonly the Apples of Paradices not resembling an apple in figure, and in taste a Melon of Cowcomber. Which fruits although they have received appellations ful a le unto the tradition, yet can we not from thence infer they were this fruit in queffion; No more then Arbor vita, so commonly called, to obtain its name from the tree of life in Paradife, or Arbor Juda, to be the same which supplied

the gibbit unto , udas.

or magical expectations,

Again, There is no determination in the Text; wherein is only particulared that it was the fruit of a tree good for food, and pleasant unto the eye, in which regards many excell the Apple; and therefore learned men do wisely conceive it ine plicable; and Philo puts determination unto despair, when he affirmeth the same kind of fruit was never produced fince. Surely were it not requifite to have been concealed, it had not paffed unspecified; nor the tree revealed which concealed their nakedness. and that concealed which revealed it; for in the same chapter mention is made of fig-leaves. And the like particulars, although they feem uncircumstantial, are oft set down in holy Scripture; so is it specified that Elias fat under a j niper tree, Absolom hanged by an Oak, and Zachem got up into a Sycomore.

And although to condemn such Indeterminables unto him that demanded on what hand Venus was wounded, the Philosopher thought it a sufficient Facobs Sciatica, resolution to re-inquire upon what leg King Philip halted; and the Few fee Gen. 32:25, not undeubredly refolved of the Sciatica-fide of Facob, do cauteoully in

34,32, their dier abstain from the finews of both : yet are there many nice particulars which may be authentically determined. That Peter cut off the right ear of Malchus, is beyond all doubt. That our Saviour ear the Passover in an upper room, we may determine from the Text. And some we may concede which the Scripture plainly defines not. That the Dyal of Ahaz was placed upon the West. fide of the Temple, we will not deny, or contradict the description of Adricomius, That Abrahams feryant put his hand under his right thigh, we shall not question; and that the Thief on the right hand was faved, and the other on the left reprobated, to make good the Method of the last judicial dismission, we are ready to admit. But surely in vain we enquire of what wood was Moses rod, or truncus cupref. the tree that sweetned the waters. Or though tradition or humane History might afford some light, whether the Crown of thorns was made of Paliurus; Whether the cross of Christ were made of those four woods in the Distick of Durantes, or only of Oak, according unto Lipsius and Goropius, we labour not to determine. For though hereof prudent Symbols and pious Allegories be made by wifer Conceivers; yet common heads will flie unto superstitious applications, and hardly avoid miraculous

> Now the ground or reason that occasioned this expression by an Apple, might be the community of this fruit, and which is often taken for any other. So the Goddess of Gardens is termed Pomona; so the Proverb expresseth it to give Apples unto Alcinons; so the fruit which Paris decided

Pescedrus eft, Sus, oliva sus premum, pulmog; transver-Sum Christi Sunt in cruce lignum. B

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was called an Apple; fo in the garden of Hesperides (which many conceive a fiction drawn from Paradise) we read of golden Apples guarded by the Dragon. And to speak Aritly in this appellation, they placed ir more fafely then any other; for beside the great variety of Apples, the word in Greek comprehendeth Orenges, Lemmons, Citrons, Quinces; Ruel. de flirpiand as Ruelling defineth, fuch fruits as have no Hone within, and a foft um natura. covering without; excepting the Pomegranate. And will extend much Isagoge in rem farther in the acception of Spigeline, who comprehendeth all round fruits Herbariam. under the name of apples, not excluding Nuts and Plumbs.

It hath been promoted in some constructions from a passage in the Can, &; Canticles, as it runs in the vulgar translation, Sub arbore malo suscitavi tt, ibi corrupta est mater tua, ibi violata est genetriz tua; Which words notwithstanding parabolically intended, admit no literal inference, and ate of little force in our translation, I railed thee under an Apple-tree, there thy mother brought thee forth, there the brought thee forth that bare thee. So when from a basket of fummer fruits or apples, as the vulgar rendreth them, God by Amos forecold the destruction of his people; we cannot say they had any reference unto the fruit of Paradile, which was the destruction of man; but thereby was declared the propinquity of their desolation, and that their tranquility was of no longer duration then those Frueliu borai. horary or foon decaying fruits of Summer. Nor when it is faid in the fame translation, Poma desiderii anima tua discesserunt a te, the apples that thy soul lusted after are departed from thee, is there any allusion therein unto the fruit of Paradise. But thereby is threatned unto Babylon, that the pleasures and delights of their Palate should forfake them. And we read in Pierius, that an Apple was the Hieroglyphick of Love, and that the Statua Philoftras. of Venus was made with one in her hand. So the little Cupids in the figur. 6. De figures of Philostratus do play with apples in a garden; and there want amoribu. not some who have symbolized the Apple of Paradise unto such constructions.

Since therefore after this fruit, curiofity fruitlesty enquireth, and confidence blindly determineth, we shall surcease our inquisition; rather troubled that it was tasted, then troubling our selves in its decision; this only we observe, when things are left uncertain, men will affure them by determination. Which is not only verified concerning the fruit, but the Opinions of Serpent that perswaded; many defining the kind or species thereof. So what kind the Bonaventure and Comeftor affirm it was a Dragon, Engubinus a Bafilisk , Serpent was, Delrio a Viper, and others a common Inake. Wherein men still continue &c. the delution of the Serpent, who having deceived Eve in the main, lets her posterity on work to mistake in the circumstance, and endeavours to propagate errorsat any hand. And those he surely most desireth which concern either God or himself; for they dishonour God who is absolute truth and goodness; but for himself, who is extreamly evil, and the worst we can conceive, by aberration of conceit they may extenuate his depravity, and ascribe some goodness unto him.

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CHAP. II

That a Man bath one Rib less then a Woman

Hat a Man hath on Rib less then a Woman, is a common conceit derived from the History of Genesis, wherein it stands delivered, that Eve was framed out of a Rib of Adam; whence 'tis concluded the ser of man still wants that rib our Pather lost in Eve. And this is not only passant with the many, but was urged against Columbus in an Anatomy of his at Pisa, where having prepared the Sceleton of a woman that chanced to have thirteen ribs on one side, there arose a party that cried him down, and even unto oaths affirmed, this was the rib wherein a woman exceeded. Were this true, it would ocularly silence that dispute out of which side Eve was framed; it would determine the opinion of Oleaster, that she was made out of the ribs of both sides, or such as from the expression of the Test maintain there was a plurality of ribs required; and might indeed decry the parabolical exposition of Origen, Cajetan, and such as fearing to concede a monstrosty, or mutilate the integrity of Adam, preventively conceive the creation of thirteen ribs.

Os ex ofibus meis,

How many ribs commonly in men and women,

But this will not confift with reason or inspection. For if we survey the Sceleton of both fexes, and therein the compage of bones, we shall readily discover that men and women have four and twenty ribs, that is, twelve on each fide, seven greater annexed unto the Sternon, and five leffer which come short thereof. Wherein if it sometimes happen that either fex exceed, the conformation is irregular, deflecting from the common rate or number, and no more inferrible upon mankind, then the monstrosity of the son of Rapha, or the vitious excess in the number of fingers and toes. And although some difference there be in figure and the female os inominatum be somewhat more protuberant, to make a fairet cavity for the Infant; the coccyx fometime more reflected to give the easier delivery, and the ribs themselves feem a little flatter, yet are they equal in number. And therefore while Ariffotle doubteth the relations made of Nations, which had but feven ribs on a fide, and yet delivereth, that men have generally no more then eight; as he rejecteth their hiftory, fo can we not accept of his Anatomy.

Again, Although we concede there wanted one rib in the Sceleton of Adam, yet were it repugnant unto reason and common observation that his posterity should want the same. For we observe that mutilations are not transmitted from father unto son; the blind begetting such as can see, men with one eye children with two, and cripples mutilate in their own persons do come out persect in their generations. For the seed conveyeth with it not only the extract and single Idea of every part, whereby it

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ransmits their perfections or infirmities; but double and over again; whereby sometimes it multipliciously delineates the same, as in Twins, in mixed and numerous generations, Parts of the feed do feem to contain the Ides and power of the whole; so parents deprived of hands, beget manual iffues, and the defect of those parts is supplied by the Idea of others. So in one grain of corn appearing fimilary and infufficient for a plural germination there lyeth dormant the virtuality of many other; and from thence fametimes proceed above an hundred ears. And thus may be made out the cute of multiparous productions; for though the feminal materials difperfe and separate in the matrix, the formative operator will not delineate a part, but endeavour the formation of the whole; effecting the fame as far athe matter will permit, and from dividing materials attempt entire formations. And therefore, though wondrous frange, it may not be impossible what is confirmed at Lansdun concerning the Countess of Holland, nor what Albertus reports of the birth of an hundred and fifty. And if we consider the magnalities of generation in some things, we shall not controvert its possibilities in others; nor easily question that great work, whose wonders are only second unto those of the Creation, and a dole apprehension of the one, might perhaps afford a glimmering light, and crepusculous glance of the other.

CHAP. III.

Of Methuselah.

Hat hath been every where opinioned by all men, and in all times, is more then paradoxical to dispute; and so that Methasselah was the longest liver of all the posterity of Adam, we quietly believe: but that he must needs be so, is perhaps below paralogy to den. For hereof there is no determination from the Text; wherein it is only particulared he was the longest Liver of all the Patriacks whose age is there expressed; but that he out-lived all others, we cannot well conclude. For of those nine whose death is mentioned before the slood, the Text expressed that Enoch was the shortest Liver; who saw but three hundred buy sive years. But to affirm from hence, none of the rest, whose age is not expressed; did die before that time, is surely an illation whereto we cannot affent.

Again, Many persons there were in those days of longevity, of whose age notwithstanding there is no account in Scripture; as of the race of Cain, the wives of the nine Partiarchs, with all thosons and daughters that

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every one begats whereof perhaps some persons might out-live Methalelab. the Text intending only the malculine line of Seth, conduceable unto the Genealogy of our Saviour, and theantediluvian Chronology. And there. fore we must not contract the lives of those which are left in silence by Moles; for neither is the age of Abel expressed in the Scrip ure, yet is he conceived far elder then commonly opinioned; and if we allow the conclusion of his Epitaph as made by Adam, and fo fet down by Salian. Posnit merens pater, cui à filio justime positum foret, Anno ab ortu rerum 13c. Ab Abele nate 129, we shall not need to doubt. Which not with. flanding Cajetan and others confirm, nor is it improbable, if we conceive that Abel was born in the second year of Adam, and Seth a year after the death of Abel: for fo it being faid, that Adam was an hundred and thirty years old when he begat Seth, Abel must perish the year before, which was one hundred twenty nine.

And if the account of Cain extend unto the Deluge, it may not be improbable that some thereof exceeded any of Seth. Nor is it unlikely in life. riches, power and temporal bleffings, they might furpass them in this world, whose lives related unto the next. For so when the seed of facel was under affliction and captivity, that of Ismael and Esan flourished and grew mighty, there proceeding from the one twelve Princes, from the other no less then fourteen Dukes and eight Kings. And whereas the age of Cain and his posterity is not delivered in the Text, some do salveit from the secret method of Scripture, which sometimes wholly omits, but feldom or never delivers the entire duration of wicked and faithless persons, as is observable in the history of Esan, and the Kings of Israel and Fudab. And therefore when mention is made that Ifmael lived 137 years, some conceive he adhered unto the faith of Abraham; for so did others who were not descended from Jacob; for Job is thought to be an Idumean,

Job thought by fome to be of the race of Plan.

and of the feed of Efan.

Lastly (although we rely not thereon) we will not omit that concit urged by learned men, that Adam was elder then Methuselah; inasmuch as he was created in the perfect age of man, which was in those days so or 60 years, for about that time we read that they begat children; fo that if unto 930 we add 60 years, he will exceed Methuselah. And therefore if not in length of days, at least in old age he surpassed others; he was older then all, who was never fo young as any. For though he knew old age, he was never acquainted with puberty, youth or Infancy; and fo in a Arica account he begat children at one year old. And if the usual compute will hold, that men are of the same age which are born within compass of the lame year; Eve was as old as her husband and parent Adam, and Cain their fon coeraneous un co both.

Now that conception, that no man did ever attain unto a thousand years, because none should ever be one day old in the fight of the Lord, unto whom according to that of David, A thousand years are but one days doth not advantage Methaselah. And being deduced from a popular

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expicition, which will not stand a Metaphylical and strict examination, is not of force to divert a ferious enquirer. For unto God a thousand years are no more then one moment, and in his fight Methuselab lived no nearer one day then Abel, for all parts of time are alike unto him, unto whom noneare referrible; and all things present, unto whom nothing is past or to come. And therefore, although we be measured by the Zone of time, and the flowing and continued instants thereof, do weave at last a line and circle about the eldest: yet can we not thus commensurate the sphere of Trismegistum; or sum up the unsuccessive and stable duration of God.

CHAP. IV.

That there was no Rain-bow before the Flood.

Hat there shall no Rain-bow appear forty years before the end of the world, and that the preceding grought unto that great flame (hall exhaust the materials of this Meteor, was an affection grounded upon no folid reason: but that there was not any in fixteen hundred years, that is, before the flood, feems deduceable from holy Scripture, Gen. 9. I do fet my bow in the clouds, and it shall be for a token of a Covenant between me and the earth. From whence notwithstanding we cannot conclude the nonexistence of the Rain-bow; nor is that Chronology naturally established, which computeth the antiquity of effects arising from physical and fetled causes, by additional impositions from voluntary determinators, Now by the decree of reason and Philosophy, the Rain-bow hath its ground in Nature, as caused by the rays of the Sun, falling upon a roride and opposite cloud: whereof some reflected, others refracted, beget that semi-circular variety we generally call the Rain-bow; which must succeed upon concurrence of causes and subjects aprly predisposed. And therefore, to conceive there was no Rain-bow before, because God chose this out as a token of the Covenant, is to conclude the existence of things from their fignalities, or of what is objected unto the fenfe, a coexistence with that which is internally presented unto the understanding. With equal reason we may infer there was no water before the institution of Baptism, nor bread and wine before the holy Eucharift.

Again, while men deny the antiquity of one Rain-bow, they anciently That there is concede another. For, befide the folary Iris which God shewed unto a Rain-bow of Noah, there is another Lunary, whose efficient is the Moon, visible only the Moon. in the night, most commonly at full Moon, and some degrees above the Horizon. Now the existence hereof men do not controvert, although

effected

effected by a different Luminary in the same way with the other. And probably appeared later, as being of rave appearance and rarer observation and many there are which think there is no fuch thing in Nature. And therefore by casual spectators they are lookt upon like prodigies, and

fignifications made, not fignified by their natures.

Laftly, We shall not need to conceive God made the Rain-bow at this time, if we confider that in its created and predipoled nature, it was more proper for this fignification then any other Meteor or celestial appearancy whatfoever. Thunder and lightning had too much terrour to have been tokens of mercy; Comets or blazing S.ars appear too feldom to put us in mind of a Covenant to be remembred often : and might rather fignifiethe world should be once destroyed by fire, then never again by water. The Galaxia or milly Circle had been more probable; for (beside that unto the latitude of thirty, it becomes their Horizon twice in four and twenty hours, and unto fuch as live under the Aquator, in that space the whole Circle appeareth) part thereof is visible unto any situation; but being only discoverable in the night, and when the ayr is clear, it becomes of unfrequent and comfortles fignification. A fixed Star had not been visible unto all the Globe, and so of too narrow a fignality in a Covenient concerning all. But Rain- ows are feen unto all the world, and every position of sphere. Unto our own elevation they may appear in the morning, while the Sun hath attained about forty five degrees above the Horizon (which is conceived the largest semidiameter of any Iris) and so in the afternoon when it hath declined unto that altitude again; which height the Sun not attaining in winter, rain-bows may happen with us at noon or any time. Unto a right position of sphere they may appear three hours after the rifing of the Sun, and three before its fetting; for the Sun ascending fifteen degrees an hour, in three attaineth forty five of altitude. Even unto a parallel iphere, and such as live under the pole, for half a year fome fegments may appear at any time and under any quarter, the Sun not fetting, but walking round about them.

The natural the rain-bow.

But the propriety of its Election most properly appeareth in the natural fignification of fignification and prognostick of it self; as containing a mixt fignality of rain and fair weather. For being in a roride cloud and ready to drop, it declareth a pluvious disposure in the air; but because when it appears the Sun mustalsoshine, there can be no universal showrs, and consequently no Deluge. Thus when the windows of the great deep were open, in vain men lookt for the Rain-bow : for at that time it could not be feen, which after appeared unto Noak. It might be therefore existent before the flood, and had in nature some ground of its addition. Unto that of nature God superadded an affurance of his Promise, that is, never to hinder its appearance, or fo to replenish the heavens again, as that we should behold it no And thus without disparaging the promise, it might rain at the same time when God shewed it unto Noah; thus was there more therein then the heathens understood, when they called it the Nuncia of the gods, and the laugh of weeping I leaven; and thus may it be elegantly faid; I put my bow, not my arrow in the clouds, that is, in the menace of rain the mercy of fair weather.

Risus plorantie of Olympi.

Cabalifical heads, who from that expression in Esay, do make a book of Olympia. heaven, and read therein the great concernments of earth, do literally play Isa, 14. 4. on this, and from its semicircular figure, resembling the Hebrew letter. Caph, whereby is signified the uncomfortable number of twenty, at which years Joseph was sold, which Jacob lived under Laban, and at which men were to go to war: do note a propriety in its signification; as thereby

which years fof the was lold, which faceb lived under Laban, and at which men were to go to war: do note a propriety in its fignification; as thereby declaring the dismal Time of the Deluge. And Christian conceits do seem to strain as high, while from the irradiation of the Sun upon a cloud, they apprehend the mysterie of the Sun of Righteousness in the obscurity of slesh; by the colours green and red, the two distructions of the world by fire and water; or by the colours of blood and water, the mysteries of

Baptism, and the holy Eucharist.

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Laudable therefore is the custom of the Jews, who upon the appearance of the Rain-bow, do magnifie the fidelity of God in the memory of his Covenant; according to that of Syracides, look upon the Rain-bow, and praise him that made it. And though some pious and Christian pens have only symbolized the same from the mysterie of its colours, yet are there other affections which might admit of Theological allusions. Nor would he find a more improper subject, that should consider that the colours are made by refraction of Light, and the shadows that limit that light; that the Center of the Sun, the Rain-bow, and the eye of the Beholder must be in one right line, that spectator must be between the Sun and the Rain-bow; that sometime there appear, sometime one reversed, Thaumancian With many others, confiderable in Meteorological Divinity, which would more sensibly make out the Epithite of the Heathens; and the expression of the son of Syrach. Very beautifull is the Rain-bow, it compasseth the heaven about with a glorious circle, and the hands of the most High have bended it.

CHAP. V.

Of Sem, Ham and laphet.

Oncerning the three sons of Noah, Sem, Ham and laptet, that the order of their nativity was according to that of numeration, and faphet the youngest son, as most believe, as Austin and others account, the sons of Faphet, and Europeans need not grant: nor will it so well consort

cord unto the letter of the Text, and its readieft Interpretations. For fo is it faid in our Translation, Sem the father of all the fons of Heber the brother of laphet the elder: so by the Septuagint, and to by that of Tremeliss. And therefore when the Vilgar reads it, Fratre lapher majore, the mistake as I anims observeth, might be committed by the night of the Hebrew account; which occasioned lerom to to render it, and many after to believe it. Nor is that Argument contemptible which is deduced from their Chronology; for probable it is that Noah had none of them before, and begat them from that year when it is said he was five hundred years old, and begat Sem, Ham and laphet. Again it is' faid he was fix hundred years old at the flood, and that two years after Sem was but an hundred; therefore Sem must be born when Noah was five hundred and two, and some other before in the year of five hundred and one.

Now whereas the Scripture affordeth the priority of order unto Sem, we cannot from thence infer his primogeniture. For in Sem the holy line was continued: and therefore however born, his genealogy was most remark. able. So is it not unusuall in holy Scripture to nominate the younger before the elder: fo is it faid, That Tarah begat Abraham, Nachor and Haram; whereas Haram was the eldeft. So Rebecca is termed the mother of lacob and Elan. Nor is it strange the younger should be first in nomination, who have commonly had the priority in the bleffings of God, and been first in his benediction. So Abel was accepted before Cain, If and the younger preferred before Ishmael the elder, Iacob hefore Efau, Ioseph was the youngest of twelve, and David the eleventh son and minor cader of

Feffe.

Laftly; though Japhet were not elder then Sem, yet must we not affirm that he was younger then Cham, for it is plainly delivered, that after Sem and laphet had covered Noah, he awaked, and knew what his youngest son had done unto him vios o none, is the expression of the Sepuagint, Filius minor of lerom, and minimus of Tremelius. And upon these grounds perhaps fofephus doth vary from the Scripture enumeration, and nameth them Sem, Japhet and Cham; which is alfo observed by the Annian Berosus; Noah cum tribus filiis, Semo, Iapeto Cham. And therefore although in the priority of Sem and laphet, there may be Some difficulty, though Cyril, Epiphanine and Auftin have accounted Sem the elder, and Salian the Annalift, and Petavius the Chronologist contend for the same; yet Chan is more plainly and confessedly named the youngest in the Text.

And this is more conformable unto the Pagan history and Gentile acaggod & absti-count hereof, unto whom Noah was Saturn, whose symbol was a ship, as relating unto the Ark, and who is faid to have divided the world between his three sons. Ham is conceived to be Jupiter, who was the youngest fon; worshipped by the name of Hamon, which was the Egyptian and African name for Inpiter, who is faid to have cut off the genitals of his father, derived from the history of Ham, who beheld the nakedness of his,

Gen. II. Gen. 18.

In divine benedictions the younger often preferred

That Noah and Saturn were the fame perfon. Gen. 9. 22. Reading Veidie for Veiegged & nunci. avit. Bocharins de Geographia

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and by no hard miftake might be confirmed from the Text, Bochartus hath well observed.

CHAP. VI.

That the Tower of Babel was crefted against a second Deluge.

A N Opinion there is of some generality, that our fathers after the flood attempted the Tower of Babel to secure themselves against a second Deluge. Which however affirmed by Josephus and others, hath seemed improbable unto many who have discoursed hereon. For (beside that they could not be ignorant of the Promise of God never to drown the world again, and had the Rain-bow before their eyes to put them in mind thereof) it is improbable from the nature of the Deluge; which being not possibly causable from natural howers above, or watery eruptions below, but requiring a supernatural hand, and such as all acknowledg irressibile; must needs disparage their knowledg and judgment in so successibles at-

Again, They must probably hear, and some might know, that the was tenof the slood ascended fifteen cubits above the highest mountains. Now, is some define, the perpendicular altitude of the highest mountains be four-miles; or as others, but fifteen surlongs, it is not easily conceived how such astructure could be effected. Although we allowed the description of Herodotus concerning the Tower of Belus; whose lowest story was in height and bredth one surlong, and seven more built upon it; abating that of the Annian Berosus, the traditional relation of Jerom, and sabulous account of the Jews. Probable it is that what they attempted was feasible, otherwise they had been amply fooled in fruitless success of their labours, nor needed God to have hindred them, saying, Nothing will be restrained

from them, which they begin to do.

It was improbable from the place, that is a plain in the land of shinar.

And if the fituation of Babylon were such at first as it was in the days of Herodorus; it was rather a seat of amenity and pleasure, than conducing unto this intention. It being in a very great plain, and so improper a place to provide against a general Deluge by Towers and eminent structures, that they were fain to make provisions against particular and annual inundations by ditches and trenches, after the manner of Egypt. And therefore Sir Walter Raleigh accordingly objecteth: If the Nations which followed History of the Nimrod, still doubted the surprise of a second flood, according to the world. opinions of the ancient Hebrews, it soundeth ill to the ear of Reason, that they would have spent many years in that low and overslown valley of Me-

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faporamia, And therefore in this situation, they chose a place more likely to have secured them from the worlds destruction by fire, then another Deluge of water: and as Pierius observeth, some have conceived that this was their intention.

Lastly, The reason is delivered in the Text. Let us build us a City and a Tower, whose top may reach unto heaven, and let us make us a name, lest we be scattered abroad upon the whole earth, as we have already began to wander over a part. These were the open ends proposed unto the people; but the secret design of Nimrod, was to settle unto himself a place of dominion, and tule over his Brethren, as it after succeeded, according to the delivery of the Text, the beginning of his kingdom was Babel.

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CHAP. VII.

of the Mandrakes of Leah.

Wheat-harvest, and found Mandrakes in the field, and brought them unto his mother Leab; then Rachel said unto Leah, give me, I pray thee, of thy sons Mandrakes: and the said unto her, is it a small matter that thou hast taken my husband, and wouldest thou take my sons Mandrakes also and Rachel said. Therefore he shall se with thee this night for thy sons Mandrakes. From whence hath arisen a common concert, that Rachel requested these plants as a medicine of secundation, or whereby she might become fruitfull. Which notwithstanding is very questionable, and of incertain truth.

Mandrakes here mentioned, be the same plant which holds that name with us, there is some cause to doubt. The word is used in another place of Scripture, when the Church inviting her beloved into the fields, among the delightfull fruits of Grapes and Pomegranates, it is said, The Mandrakes give a smell, and at our gates are all manner of pleasant fruits. Now instead of a smell of Delight, our Mandrakes afford a papaverous and unpleasant odor, whether in the least or apple, as is discoverable in their simplicity or mixture. The same is also dubious from the different interpretations: for though the Septuagint and Josephus do render it the Apples of Mandrakes in this Text, yet in the other of the Canticles, the Chaldy Paraphrase terms this Balsame. R. Solomon, as Drussus observeth, conceives it to be that plant the Arabians named Iesemin. Oleaster, and Georgim Venetum, the Lilly, and that the word Dudaim, may comprehend any plant

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plant that hath a good smell, resembleth a womans breast, and flourisheth in wheat harveft. Tremelises interprets the fame for any amiable flowers of a pleasant and delightfull odonr : but the Geneva Franslators have been more wary then any : for although they retain the word Mandrake in the Text, they in effect retract it in the Margin: wherein is fet down the word in the Original is Dudain, which is a kind of fruit or Flower inknown.

Nor shall we wonder at the diffent of exposition, and difficulty of definition concerning this Text, if we perpend how variously the vege- The vegetatables of Scripture are expounded, and how hard it is in many places to bles in H. make out the species determined. Thus are we at variance concerning the Scripture how plant that covered Jonas; which though the Septuagint doth render pounded. Colocynthis, the Spanish Calabaca, and ours accordingly a Gourd vet the yulgar translates it Hedera or Ivy; and as Grotise observeth, Ferom thus translated it, not as the same plant, but best apprehended thereby. The Italian of Diodais, and that of Tremeliss have named it Ricinss, and so hath ours in the Margin, for palma Christi is the same with Risings The Geneva Translators have herein been also circumspect, for they have mained the Original word Kikaion, and ours hath also affixed the same unto the Margin.

Nor are they indeed alwayes the same plants which are delivered under

the same name, and appellations commonly received amongst us. So when it is said of Solomon, that he writ of plants from the Cedar of Lebanus, unto the Hylop that groweth upon the wall, that is, from the greatest unto the smallest, it cannot be well conceived our common Hysop; for neither is that the least of vegetables, nor observed to grow upon wals; but rather as Lemnises well conceiveth, some kind of the capillaries, which are very small plants, and only grow upon wals and stony places. Nor are the four species in the holy owntment, Cinnamon, Myrrhe, Calamus and Caffia, por the other in the holy perfume, Frankincense, Stacte, Onycha and Galbanum, to agreeably expounded unto those in use with us, as not to leave confiderable doubts behind them. Nor must that perhaps be uken for a simple unguent, which Matthew only termeth's precious ovncment; but rather a composition, as Mark and John imply by pistick Nard, v. Mathiolis

by Diescerides, made of oyl of Ben, Malabathrum, Juncus Odoratus, Coftus, Amomum, Myrrhe, Ballamand Nard; which Galen affirmeth to have been in use with the delicate Dames of Rames and that the best thereof was made at Landicea; from whence by Merchants it was conveyed unto other parts. But how to make out that Translation concerning the Tithe of Mint, Anise and Cumin, we are still to seek; for we find not a word in the Text that can properly be rendred Anise; the Greek being wingo which the Lacines call Anethum, and is properly Englished Dill. Liftly. What meteor that was, that fed the Ifraelites fo many years, they must file again to inform us. Her do they make it out, who will thave It the

that is faithfully dispensed, and may be that famous composition described Epist.

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Chryfoftom. Magnenum de Manna.

same with our Manna; nor will any one kind thereof, or hardly all kinds V. Doffifimum we read of, be able to answer the qualities thereof, delivered in the Scripture; that is, to fall upon the ground, to breed worms, to melt with the Sun, to tafte like fresh oyl, to be grounded in Mils, to be like Coriander feed, and of the colour of Bdellium.

Again, It is not deducible from the Text or concurrent fentence of Comments, that Rachel had any such intention, and most do rest in the determination of Auftin, that the defired them for rarity, pulchritude or fuarity. Nor is it probable the would have refigned her bed unto Leab, when at the same time she had obtained a medicine to fructifie her felf. And therefore Drufing who hath expresly and favourable created hereof, is so far from conceding this intention, that he plainly concludeth, Hoc que mode its in mentem venerit conficere nequeo; how this conceit fell into mens minds. it cannot fall into mine; for the Scripture delivereth it not, nor can it be clearly deduced from the Text.

Thirdly, If Rachel had any fuch intention, yet had they no fuch effed. for the conceived not many years after of fofeph; whereas in the men

time Leab had three children, Ifachar, Zebulon and Dinah.

Laftly, Although at that time they failed of this effect, yet is it mainly questionable whether they had any such vertue either in the opinions of those times, or in their proper nature. That the opinion was popular in the land of Canaan, it is improbable, and had Leab understood thus much, The would not furely have parted with fruits of fuch a faculty a especially unto Rachel, who was no friend unto here As for its proper nature, the Ancients have generally esteemed in Narcotick or stupefactive, and it is to be found in the lift of poylons, fet down by Diofcorides, Galen, Atim, Egineta, and feveral Antidotes delivered by them againft it. It was! confess from good Antiquity, and in the days of Theophrast accounted philtre, or plant that conciliates affection; and so delivered by Dioscorides. And this intent might feem most probable, had they not been the wives of holy Jacob: had Rachel presented them unto him, and not requested them for her felf.

Now what Diefeorides affirmeth in favour of this effect, that the grains of the apples of Mandrakes mundifie the Matrix, and applied with Sulphur, flop the fluxes of women, he overthrows again by qualities destructive unto conception; affirming also that the juice thereof purgeth upward like Hellebores and applied in pessaries provokes the menstruous flows, and procures abortion. Petras Hifpann, or Pope John the twentieth fpeaks more directly in his Thefaurus pauperum : wherein among the receits of fecundation, he experimentally commendeth the wine of Mandrakes given with Triphera magna. But the foul of the medicine may lie in Triphera magna, an excellent composition, and for this effect commended by Nicolaus. And whereas Levinus Lemnine that eminent Physician doth also concede this effect, it is from manifeft causes and qualities elemental occasionally producing the same. For he imputerh the same unto the coldness

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coldness of that simple, and is of opinion that in hot climates, and where the uterine parts exceed in hear, by the coldness hereof they may be redueed into a conceptive constitution, and Crasis accommodable unto generation; whereby indeed we will not deny the due and frequent use may proceed unto some effect, from whence notwithstanding we cannot infer a fertilitating condition or property of fecundation. For in this way all vegetables do make fruitful according unto the complexion of the Matrix; if that excel in hear, plants exceeding in cold do rectifie it; if it be cold, simples that are hot reduce it; if dry moist, if moist dry correct it; in which division all plants are comprehended. But to distinguish thus much is a point of Art, and beyond the Method of Rachels or feminine Phylick. Again, Whereas it may be thought that Mandrakes may fecundate, fince Poppy hath obtained the Epithite of fruitful, and that fertility was Hiercglyphically described by Venus with an head of Poppy in her hand; the reason heroof was the multitude of seed within it self, and no such multiplying in humane generation. And laftly, whereas they may feem to have this quality, fince Opium it felf is conceived to extimulate unto venery, and for that intent is sometimes used by Turks, Tersians, and most oriental Nations; although Winelerus doth feem to favour the conceit. vet Amatus Lustanus, and Rodericus à Caftro are against it : Garcias ab borto refutes it from experiment; and they speak probably who affirm Opium, of the intent and effect of eating Opium, it not so much to invigorate them- what effect in selves in coition, as to prolong the Act, and spin out the motions of car- venery, nality.

CHAP. VIII.

Of the three Kings of Collein.

Common conceit there is of the three Kings of Collein, conceived to be the wife men that travelled unto our Saviour by the direction of the Star, Wherein Comitting the large Discourses of Baronius, Pineda and Montacutism,) that they might be Kings, beside the Ancient Trzdition and Authority of many Fathers, the Scripture also implieth. Gentiles, shall come to thy light, and Kings to the brightness of thy ri-The Kings of Tharfis and the Illes, the Kings of Arabia and Saba shall offer gifts, which places most Christians and many Rabbins interpret Thee Magior of the Meffiah, Not that they are to be conceived potent Monarchs, or wife men Mat. mighty Kings; but Toparks, Kings of Cities or narrow Territories, ner of Kings. such as were the Kings of Sodom and Gomorrah, the Kings of fericho and they were.

Ai, the one and thirty which Jofhuab Subdued, and fuch as some con-

ceive the Friencs of Job to have been.

But although we grant they were Kings, yet can we not be affured they were three. For the Scripture maketh no mention of any number; and the numbers of their presents, Gold, Myrrhe and Frankincense, concludeth not the number of their persons; for these were the commedities of their Country, and such as probably the Queen of Sheba in one person had brought before unto Solomon. So did not the sons of Jacob divide the present unto Joseph, but are conceived to carry one for them all, according to the expression of their Father: Take of the best fruits of the land in your vessels, and carry down the man a present. And therefore their number being uncertain, what credit is to be given unto their names, Gasper, Melchior, Balthauar, what to the charm thereof against the filling sickness, or what unto their habits, complexions, and corporal accidents, we must rely on their uncertain story, and received pourtraits of Collein

Gafpar fert myrrham, &c.

Lastly, Although we grant them Kings, and three in number, yet could we not conceive that they were Kings of Collein, For though Collein were the chief City of the whii, then called whispolis, and afterwards Agrippina, yet will no History inform us there were three Kingsthereof, Beside, these being rulers in their Countries, and returning home, would have probably converted their subjects: but according unto Munster, their conversion was not wrought until seventy years after by Maternus a disciple of Peter. And lastly, it is said that the wise men came from the East; but Collein, is seated West-ward from Jerusalem; for Collein hath of longitude thirty four degrees, but Jerusalem seventy two.

And why of Colloin.

The ground of all was this. These wise men or Kings, were probably of Arabia, and descend from Abraham by Ketnrah, who apprehending the mystery of this Star, either by the Spirit of God, the prophesie of Balaam, the prophesie which Suctionism mentions, received and constantly believed through all the East, that out of Jury one should come that should rule the whole world: or the divulged expectation of the Jems from the expiring prediction of Daniel: were by the same conducted unto Judea, returned into their Country, and were after baptized by Thomas. From whence about three hundred years after, by Helena the Empass their bodies were translated to Constantinople. From thence by Eustains unto Millane, and at last by Renatus the Bishop unto Collein: where they are believed at present to remain, their monuments shown unto strangers, and having lost their Arabian titles, are crowned Kings of Collein.

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CHAP. IX.

Of the food of John Baptist, Locusts and Wild koney.

Oncerning the food of John Baptist in the wilderness, Locusts and Wild-honey, lest popular opiniatrity should arise, we will deliver the chief opinions. The first conceives the Locusts here mentioned to be that fruit which the Greeks name, reconny, mentioned by Luke in the diet of the Prodigal son, the Latins Siliqua, and some Panis Santi Johannis; included in a broad Cod, and indeed a taste almost as pleasant as Honey. But this opinion doth not so truly impugn that of the Locusts: and might

rather call into controversie the meaning of Wild-honey.

The second affirmeth that they were the tops or tender crops of trees: for so Locufta also fignifieth : which conceit is plausible in Latin, but will Opinions not hold in Greek, wherein the word is axes a, except for axes os, we read concerning areston, or exe ports, which fignifie the excremities of trees, of which belief executes, have divers been : more confidently Isdore Pelensiota, who in his Epiftles or the Locusts plainly affirmeth they think unlearnedly who are of another belief. And of S. Ichn Bapthis lo wrought upon Baronins, that he concludeth in neutrality; Hec cum scribat Isidorus definiendum nobis non est, & totum relinquimus lectoru arbitrio; nam constat Gracam dictionem uxendes, & Locustam, insecti genue, & arborum summit ates fignificare. Sed fallitur, faith Montacutius, vam conftat contrarium, 'Aveidu apud nullum authorem clasicum 'Azegoua fignifiare. But above all Paracelfus with most animoficy pro no. teththis opinion, and in his book de melle, spareth not his Friend Erasmus, Hoe à nonnullis it a explicatur ut dicant Locustas aut cicadas Johanni pro cibo fuife; fed hi stultitiam disimulare non poffunt, veluti Feronimus, Erasmus, & alii Prophe: a Neoterici in Latinitate immortui.

A third affirmeth that they were properly Locults: that is, a sheath-The more prowinged and six-stooted insect, such as is our Grashopper. And this opi-bable what nion seems more probable than the other. For beside the authority of Origen, Jerom, Chrysostom, Hillary and Ambrase to confirm it: this is the proper signification of the word, thus used in Scripture by the Septuagint, Greek vocabularies thus expound it. Suidas on the word Axels of serves it to be that animal whereon the Baptist sed in the desert; in this sense the word is used by Aristotle, Dioscorides, Galen, and several humane Authors. And lastly, there is no absurdity in this interpretation, or any solid reason why we should decline it, it being a sood permitted unto the Jews, whereof four kinds are reckoned up among clean meats. Beside, not only the Jews, but many other Nations long before and since, have made an usual food thereof. That the Æthiopians, Mauritanians and Arabians did commonly cat them, is testified by Diodorus, Strabo,

Solinns,

Solinus, Elian and Pliny: that they ftill feed on them is confirmed by Leo, Cadamuftus and others. John therefore as our Saviour faith, came neither eating nor drinking : that is, far from the diet of Fernsalem and other Riotous places : but fared courfly and poorly according unto the ap. parel he wore, that is of Camels hair: the place of his abode, the wildernels; and the doctrin he preached, humiliation and repentance;

CHAP. X.

That John the Evangelist should not die.

HE conceit of the long-living, or rather not dying of John the Evangelist, although it seem inconsiderable, and not much weightier than that of Joseph the wandring Jew : yet being deduced from Scripture. and abetted by Authors of all times, it shall not escape our enquiry. It is drawn from the speech of our Saviour unto Peter after the prediction of his Martyrdom; Peter faith unto Jefus, Lord what shall this man do ? Jefus faith unto him, If I will that he carry until I come, what is that to thee? Follow thou me; then went this faying abroad among the brethern, that

this disciple should not die.

Now the belief hereof hath been received either groffy and in the general, that is not distinguishing the manner or particular way of this continuation, in which sense probably the groffer and undiscerning party received it. Or more distinctly apprehending the manner of his immortality; that is, that John should never properly die, but be translated into Paradife, there to remain with Enoch and Elias until about the coming of Christ; and should be stain with them under Antichrist, according to that of the Apocalyps. I will give power unto my two witnesses, and they shall prophesie a thousand two hundred and threescore days cloathed in fack-cloth, and when they shall have finished their Testimony, the beast that ascendeth out of the bottomless pir, shall make war against them, and shall overcome them, and kill them. Hereof, as Baronius observeth, within three hundred years after Christ, Hippolytus the Martyr was the first affertor, but hath been maintained by Metaphrastes, by Freculphus, but especially by Georgius Trapezuntius, who hath exprelly treated upon this Text, and although he lived but in the last Century, did still affirm that Fohn was not yet dead.

The same is also hinted by the learned Italian Poet Dante, who in his Poetical survey of Paradise, meeting with the soul of St. John, and defiring to see his body; received answer from him that his body was in

earth,

Lohn 112

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suith, and there should remain with other bodys, until the number of the defied were accomplished .

> În terra è terra ilmio corpo, & saragli Tanto con gli altri, che l' numero noffro Con l'eterno proposito s'aggnagli.

As for the gross opinion that he should not die, it is sufficiently refuted by that which first occasioned it, that is the Scripture it felf, and no further off, than the very subsequent verse : Yet Jesus said unto him, he should not die, but if I will that he tarry till I come, What is that to thee? And this was written by John himfelf, whom the opinion concerned; and as is conceived many years after, when Peter had suffered and fulfilled the

prophesie of Christ.

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> For the particular conceit, the foundation is weak, nor can it be made out from the Textalledged in the Apocalyps: for beside that therein two resions are only named, no mention is made of John, a third Actor in this Imgedy. The same is also overthrown by History, which recordeth not only the death of John, but affigneth the place of his burial, that is Ephefus, The death of a City in Afia minor, whither after he had been banished into Patmos by St. Iohn Evan-Domitian, he returned in the reign of Nerva, there deceased, and was gelift, where buried in the days of Trajan. And this is testified by Jerom, by Tertulli. and when, an, by Chryfostom and Ensebins, in whose days his Sepulchre was to be De Scriptor. feen; and by a more ancient Testimony alleadged also by him, that is of Ecclesiast. De Palserates Bishop of Ephesus, not many successions after John; whose anima, words are these in an Epistle unto Viltor Bishop of Rome, Johannes ille qui supra pettus Domini recumbebat, Dottor optimus, apud Ephesum dor. mivit; many of the like nature are noted by Paronins, Janfenius, Efins. Lipellous, and others.

Now the main and primitive ground of this error, was a gross mistake in the words of Christ, and a false apprehension of his meaning; underflanding that positively which was but conditionally expressed, or receiving that affirmatively which was but concessively delivered. For the words of our Saviour run in a doubtful strain, rather reprehending than satisfying the curiofity of Peter; as though he should have said, Thou hast thy own doom, why enquireft thou after thy Brothers? What relief unto thy affliction, will be the fociety of anothers? Why pryest thou into the secrets of Gods will? If he flay until I come, what concerneth it thee, who shalt be fure to fuffer before that time? And fuch an answer probably he returned, because he fore-knew John should not suffer a violent death, but go unto his grave in peace. Which had Peter affuredly known, it might have cest some water on his flames, and smothered those fires which kindled

after unto the honour of his Master.

Now why among all the rest John only escaped the death of a Martyr, the reason is given; because all others fl daway or withdrew themselves at

at lebus.

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Of all the ApoRles St. thought to have fuftered a And why?

his death, and he alone of the Twelve beheld his paffion on the Crois Wherein notwithstanding, the affliction that he suffered could not amount unto less than Martyrdom: for if the naked relation, at least the intentite confideration of that Pathon, be able fill, and at this disadvantage of natural death : time, to rend the hearts of pious Contemplators, furely the near and fenfible vision thereof must needs occasion Agonies beyond the comprehension of fleth; and the trajections of fuch an object more sharply pierce the Martyred foul of Jobn, than afterward did the nails the crucified body of Beter:

Againe They were mistaken in the Emphatical apprehension, placing the confideration upon the words, If I will : whereas it properly lay in thefe, when I come. Which had they apprehended as some have since that is, not for his ultimate and last return, but his coming in Judgment and destruction upon the Jews; or fuch a coming, as it might be faid, that that generation should not pass before it was fulfilled; they needed not, much less need we suppose such diuturnity. For after the death of Per John lived to behold the same fulfilled by Vefpasian : nor had he then his Nune dimittimus, or went out like unto Simeen ; but old in accome plishe obscurities, and having feen the expire of Daniels prediction, as

some conceive, he accomplished his Revelation.

But befides this original and primary foundation, divers others have made impressions according unto different ages and persons by whom they were received. For some established the conceit in the disciples and brethren, which were contemporary unto him, or lived about the fame time with him; and this was first the extraordinary affection our Saviour bees unto this disciple, who hath the honour to be called the disciple whom Telus loved. Now from hence they might be apt to believe their Mafter would dispense with his death, or suffer him to live to see him return in glory, who was the only Apostle that beheld him to die in dishonour. Another was the belief and opinion of those times, that Christ would sud denly comes for they held not generally the same opinion with their such ceffors, or as descending ages after so many Centuries; but conceived his coming would not be long after his passion, according unto several expressions of our Saviour groffy understood, and as we find the same opinion not long after reprehended by St. Paul: and thus conceiving his coming would not be long, they might be induced to believe his favorite should live unto it. Lastly, the long life of Folm might much advantage this opinion; for he survived the other twelve, he was aged 22 years when he was called by Christ, and 25 that is the age of Priesthood at his death, and lived 93 years, that is 68 after his Saviour, and died not before the second year of Trajan. Now having out lived all his fellows, the world was confirmed he might live still, and even unto the coming of his Master.

Thef. 3.

Saint Tohm, how long furviving our B. Sayiour.

> The ground which promoted it in succeeding ages, were especially two. The first his escape of martyrdom : for whereas all the rest suffered some

Wind of foreible death, we have no history that he fuffered any; and men might think he was not capable thereof : For as History informeth, by the command of Domitian he was cast into a Caldron of burning oyl, and came out again unfinged. Now future ages apprehending he suffered no violent death, and finding also the means that tended thereto could take no place, they might be confirmed in their opinion, that death had no power over him, that he might live always who could not be destroyed by fire. and was able to refift the fury of that element which nothing shall refift. The second was a corruption crept into the Latin Text, reading for Si. Sie eum manere volo; whereby the answer of our Saviour becometh positive, or that he will have it so; which way of reading was much received in former ages, and is still retained in the wulgar Translation; but in the Greek and original the word is w, fignifying Si or if, which is very different from in, and cannot be translated for it: and answerable hereunto is the translation of Junius, and that also annexed unto the Greek by the authority of Sixtus Quintus.

The third confirmed it in ages farther descending, and proved a powerfull argument unto all others following; because in his tomb at Ephelin there was no corps or relique thereof to be found; whereupon arole divers doubts. and many fuspitious conceptions; some believing he was not buried, some that he was buried but rifen again, others that he descended alive into his tomb, and from thence departed after. But all these priceeded upon invertiable grounds, as Baronius hath observed; who alledgeth a letter of Celefine Bishop of Rome, unto the Council of Ephelm, wherein he declareth the reliques of John were highly honoured by that City; and by a passage also of Chrysoftome in the Hamilies of the Apostles, That John being dead, did cures in Ephofms, as though he were still alive. And fo Toblerve that Eft bine differling this point concludeth hereupon. Quod empus eine nunquam reperiatur, boc non dicerent fi veterum feripta

diligentur perluftraffent.

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Now that the first ages after Christ, those succeeding, or any other frond proceed into opinions to far divided from reason, as to think of immortality after the fall of Adam, or conceit a man in these later times should out-live our fathers in the first; although it feem very strange, yet is it not incredible. For the credulity of men hath been deluded into the like conceits; and as Ireneus and Tertulian mention, one Menander 2 Samaritan obtained belief in this very point; whose doctrin it was, that death should have no power on his disciples, and such as received his baptilm should receive immortality therewith. Twas furely an apprehension very strange; nor usually falling either from the absurdities of Melancholy or vanities of ambition. Some indeed have been so affectedly vain, as to counterfeit Immortality, and have stoln their death, in a hope to be esteemed immortal; and others have conceived themselves dead; but surely few or none have fallen upon fo bold an errour, as not to think that they could die at all. The reason of those mighty ones, whose ambition could **fuffer**

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fuffer them to be called gods, would never be flattered into immortality; but the proudeft thereof have by the daily dictates of corruption convinced the impropriety of that appellation. And furely although delution man run high, and possible it is that for a while a man may forget his name. yet cannot this be durable. For the inconcealable inperfections of our felves, or their daily examples in others, will hourly prompt us our curre. ption, and loudly tell us we are the fons of earth.

CHAP. XI

More compendiously of some others.

Any others there are which we refign unto Divinity, and perhaps deferve not controversie. Whether David were punished only for pride of heart in numbring the people, as most do hold, or whether as Josephus and many maintain, he suffered also for not performing the Commandment of God concerning capitation; that when the people were numbred, for every head they should pay unto God a shekell, we shall not Surely, if it were not the occasion of this plague, we must here contend. acknowledge the omission thereof was threatned with that punishment, according to the words of the Law. When thou takest the sum of the children of Ifrael, then shall they give every man a ransom for his foul unto the Lord, that there be no plague amongst them. Now how deeply hereby God was defrauded in the time of David, and opulent State of Ifrael, will eafily appear by the sums of former lustrations. For in the first, the filver of them that were numbred was an hundred Talents, and a thousand feven hundred threescore and fifteen shekels; a Bekah for every man, that is, half a thekel, after the fhekel of the fan Quary ; for every one from twenty years old and upwards, for fix hundred thousand, and three thousand and five hundred and fifty men. Answerable whereto we read in Fosephus, Vesp fian ordered that every man of the Fews should bring into the Capital two dragms; which amounts unto fifteen pence, or a quarter of an ounce of filver with us a and is equivalent unto a Bekah, or What the Athalf a shekel of the Sanctuary. For an Attick dragm is seven pence halfpeny or a quarter of a shekel, and a didrachmum or double dragm, is the word used for Tribute money, or half a shekel; and a stater the money found in the fifthes mouth was two Didrachmums, or an whole shekel, and tribute sufficient for our Saviour and for Peter.

tick dram is. What the die drachmum and the flater, Mas. 17. 27.

We will not question the Metamorphofis of Lots wife, or whether the were transformed into a real status of Salt: though some conceive that expression Metaphorical, and no more thereby then a lasting and durable

Exed. 10.

Exad. 18.

column,

comm, according to the nature of Salt, which admitteth no corruption : in which sense the Covenant of God is termed a Covenant of Sale; and it salfo faid, God gave the Kingdom unto David for ever, or by a Covenant of Salt.

That Abfalom was hanged by the bair of the head, and not caught up by the neck, as fofephus conceiveth, and the common argument against long hair affirmeth, we are not ready to deny. Although I confess a great and learned party there are of another opinion; although if he had his Morion or Helmet on, I could not well conceive it; although the translation of Ierom or Tremelius do not prove it, and our own feems rather to

overthrow it.

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That Inda hanged himself, much more, that he perished thereby, we Malinot railes doubt, Although lanfenins discourling the point, produceth the testimony of Theophylast and Embimons, that he died not by the Gillows, but under a cart wheel, and Baronius alfo deliverech, this was the opinion of the Greeks, and derived as high as Papias, one of the Disciples of lohn. Although also how hardly the expression of Matthew is reconcilable unto that of Peter, and that he plainly hanged himself, with that that falling head-long he burft afunder in the midft, with many other, the learned Grotius plainly doth acknowledge. And laftly, Although as he also urgeth, the word amytem in Marthen, doth nor only How Indas fenifie suspension or pendulous illaqueation, as the common picture might die. discribeth it, but also suffocation, strangulation or interception of breath, which may arise from grief, dispair, and deep dejection of spirit, in which inse it is used in the History of Tobit concerning Sara, though offen Strangulation in indytad. Isa triffata est ut strangulatione premeretur; saith lunius; and so might it happen from the horrour of mind unto Pulas. So do many of the Hebrews affirm, that Achitophel was also frangled, that is, not from the rope, but passion. For the Hebrew and Arabick word in the Text, not only fignifies suspension, but indignation, as Grotius hath also המנ נוספע בככני אום דהו observed.

Many more there are of indifferent truths, whose dubious expositions , worthy Divines and Preachers do often draw into wholesome and sober ules whereof we shall not speak; with industry we decline such Paradoxes;

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econding to the native of Sale, which admit et no count

of the Cessation of Oracles.

That Oracles ceased or grew mute at the coming of Christ, is beff un. derfood in a qualified fense, and not without all latitude, as though precisely there were none after, nor any decay before. For (what we must confess unto relations of Antiquity) some pre-decay is observable from that of Cisero, urged by Baronius; Cur ifto modo jum oracula Delphis non eduntur, non modo noftra atate, fed jam din, ut nihil poffet effe contemptins. That during his life they were not altogether dumb, is deduceable from Suctavius in the life of Tiberius, who attempting to Subvert the Oracles adjoyning unto Rome, was deterred by the Louor chances which were delivered at Preneste. After his death we meet with many: Suetonius reports, that the Oracle of Autium forewarned Califolia to beware, of Callins, who was one that conspired his death. Plutare enquiring why the Oracles of Greece ceased, excepteth that of Lebadies and in the same place Demetrins affirmeth the Oracles of Montand Amphilochus were much frequented in his days. In brief, Historiesan frequent in examples, and there want not some even to the reign of Julian.

What therefore may consist with history, by reflation of Oracles with Mentacettus we may understand their intercition, not abscrittion or consummate desolution; their rare delivery, not total dereliction, and ye in regard of divers Oracles, we may speak strictly, and say there was proper cessation. Thus may we reconcile the accounts of times, and allow those few and broken divinations, whereof we read in story and understable Authors. For that they received this blow from Christ, and noother causes alledged by the heathers, from oraculous confession they cannot deay; whereof upon record there are some very remarkable. The first the Oracle of Delphos delivered unto Angustus.

Me puer Hebraus Divos Deus ipfe gubernans Cedere sede jubet, tristema; redire sub orcum; Aris ergo debinc tacitus discedito nostris.

An Hebrew child, a God all gods excelling,
To hell again commands me from this dwelling.
Our Altars leave in filence, and no more
A Resolution e're from hence implore.

A fecond recorded by Platarch, of a voice that was heard to cry unto

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Miriners at the rea, Great Pan is delet; which is par relation very remaikable; and may be read in his defect of Oracles. A third reported by Enfiling in the life of his magnified Conftantine, that about that time Apollo mourned, declaring his Oracles were false and that the righteous upon earth did hinder him from speaking truth. And a fourth related by Theodorer, and delivered by Apollo Dephiness unto Julian upon his Persian especiation, that he should remove the bodies about him before he could return an answer, and not long after his Temple was burnt with lightning.

All which were evident and convincing acknowledgements of that Power which that his lips, and reftrained that delution which that reigned to many Centuries. But as his malice is vigitant, and the fins of men do still continue a toleration of his mischless, he restect not, not will he ever case to circumvent the sons of the stift decelved. And therefore expelled The devils restroined minor trumperies, and acting his deceits in Witches, Magicians, pelled the Diviners, and such inferiour seducers. And yet (what is deplorable) while we apply our selves thereto, and affirming that God hath left to speak by his Prophets, expect in doubtfull matters a resolution from such spirits, while we say the devil is mute, yet confess that these can speak a while we deny the substance, yet practise the effect and in the denied solemnity maintain the equivalent efficacy; in vain we cry that Oracles are down; Apollos Altar still doth smoak; nor is the site of Deplace out unto this day.

Impertinent it is unto our intention to speak in general of Oracles, and many have well performed it. The plainest of others was that of Apollow Delphiens recorded by Herodotus, and delivered unto Grass; who as a manostheir omniscience sent unto distant Oracles; and so contrived with the Messengers, that though in several places, yet at the same time they should demand what Crasus was then a doing. Among all others the Oracle of Delphos only hit it, returning answer, he was boyling a Lamb with a Tortoise, in a brazen vessel, with a cover of the same metal. The

file is haughty in Greek, though somewhat lower in Latine.

Aquoris est spassum & numerus mihi notus arene Mutum percipio, fantis nihil andio vocem. Venit ad hos sensus nidor testudinis acris, Qua semel agnirà coquitur cum carne labete, Aere infra strato, & stratum cui desuper as est.

I know the space of Sea, the number of the sand, I hear the filent, mute I understand. A tender Lamb joined with Tortoise sless, Thy Master King of Lydia now doth dress. The scent thereof doth in my nostrils hover, From brazen pot closed with brazen cover.

Hereby indeed he acquired much wealth and more honour, and was reputed by Crafma as a Diety: and yet not long after, by a sulgar fallace he deceived his fayourite and greatest friend of Oracles into an irreparable overthrow by Cyrau. And furely the fame fuccels are likely all to have that rely or depend upon him. 'Twas the first play he practifed on morulity; and as time hath rendred him more perfect in the Art, fo hath the inveterateness of his malicemore ready in the execution. 'Tis therefore the foveraign degree of folly, and a crime not only against God, but also our own reasons, to expect a favour from the devil; whose mercies are more cruel than those of Polyphemau; for he devours his favourites first, and the nearer a man approacheth, the fooner he is fcorched by Moloch. In brief. his favours are deceitfull and double-headed, he doth apparent good, for real and convincing evil after it; and exalteth us up to the top of the Temple, but to humble us down from it.

CHAP.

of the death of Aristotle.

Hat Aristotle drowned himself in Euripus, as dispairing to resolve the cause of its reciprocation, or ebb and flow seven times a day, with this determination, Si quidem ego non capio te, tu capies me, was the affertion of Procopies, Nazianzen Juftin Martyr, and is generally believed amongst us. Wherein, because we perceive men have but an impersed knowledge, some conceiving Euripsu to be a River, others not knowing where or in what part to place it; we first advertise, it generally fignifich any fliair, fret, or channel of the Sea, running between two shoars, as viou isgeneral: Julius Pollux hath defined it ; as we read of Euripus Hellespontiacm, Pyrrhaus, and this whereof we treat, Euripus Enboicus or Chalcidicus, that is, a narrow paffege of Sea dividing Attica, and the Island of Enbes, now called Golfo de Negroponte, from the name of the Island and chief City thereof; famous in the wats of Antiochus, and taken from the Venetians by Mahomet the Great.

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Now that in this Euripe or fret of Negropont, and upon the occasion mentioned, Ariftotle drowned himself, as many affirm, and almost all believe, we have some room to doubt. For without any mention of this, we find two ways delivered of his death by Diogenes Laertins, who expresly treateth thereof; the one from Eumolus and Phavorinus, that being accused of impiety for composing an Hymn unto Hermias (upon whole Concubine he begat his fon Nichomachus) he withdrew into Chalcis, where drinking poison he died; the Hymn is extent in Lacrtins, and the

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fifteenth book of Athenens. Another by Apollodorus, that he died at Chalcie of a natural death and languishment of stomach, in his fixty third . or great Climacterical year; and answerable hereto is the account of Suidas and Cenforinus. And if that were clearly made out, which Rabbi Ben Tofeph affirmeth, he found in an Egyptian book of Abraham Sapiens Prixel; that Arifotle acknowledged all that was written in the Law of Licetus de Mofes, and became at last a Proselyte; it would also make improbable quefen, epif. this received way of his death,

Again, Beside the negative of Authority, it is also deniable by reason : nor will it be easie to obtrude such desperate attempts upon Aristotle, from unfatisfaction of reason, who so often acknowledged the imbecillicy thereof. Who in matters of difficulty, and such which were not without abstrusities, conceived it sufficient to deliver conjecturalities. And surely he that could sometimes fit down with high improbabilities, that could content himself, and think to satisfie others, that the variegation of Birds was from their living in the Sun, or erection made by deliberation of the Teftides; would not have been dejected unto death with this. He that was fo well acquainted with & in, and miner utrum, and An Quia, as we obferve in the Queries of his Problems : with lows and in no mondo, fortalle and plerumque, as is observable through all his Works: had certainly rested with probabilities, and glancing conjectures in this: Nor would his resolutions have ever run into that mortal Antanaclasis, and desperate piece of Rhetorick, to be comprized in that he could not comprehend. Nor is it indeed to be made out that he ever endeavoured the particular of Euripus. or so much as to resolve the ebb and flow of the Sea. For, as Vicomercathe and others observe, he hath made no mention hereof in his Works, although the occasion present it self in his Mercors, wherein he dispute the the affections of the Sea: nor yet in his Problems, although in the twenty third Section, there be no less than one and forty Queries of the Sea. Some mention there is indeed in a Work of the propriety of Elements, as cribed unto Ariftotle: which notwithstanding is not reputed genuine, De placin and was perhaps the same whence this was urged by Plut arch.

Lastly, the thing it self whereon the opinion dependeth, that is, the variety of the flux and the reflux of Euripus, or whether the same do ebb and flow seven times a day, is not incontrovertible. For though Pompovins Mela, and after him Solinus and Pling have affirmed it, yet I obferve Thucydides, who speaketh often of Enbaa, hath omitted it. Panfanias an ancient Writer, who hathleft an exact description of Greece, and in as particular a way as Leandro of Italy, or Cambden of great Britain, describing not only the Country Towns, and Rivers; but Hills, Springs and Houses, hath left no mention hereof. Aschines in Cteliphon only alludeth unto it; and Strabo that accurate Geographer speaks wearily of ir, that is, or our, and as men commonly reported. And lo doth also Maginus, Velocis ac varis fluctus est mare, nhi quater in die, aut septies, at alii dicunt, reciprocantur aftus Botero more plainly, Il

Philosophorum.

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mar cresce e cala con un impeto mirabile quatra volte il di, ben che communimente fi dica fette volte, &c. This Sea with wondrous imme mofity ebbeth and floweth four times a day, although it be commonly faid feven times, and generally opinioned, that Ariftotle despairing of the reason, drowned himself therein. In which description four times a day, it exceeds not in number the motion of other Seas, taking the words properly, that is, twice ebbing and twice flowing in four and twenty hours. And is no more than what Thamaso Porrchacobi affirmen in his description of famous Islands, that twice a day it hath such an impetuous flood, as is not without wonder, Livy speaks more particularly, Hand facile infestior classi statio est & fretum ipsum Euripi, non fentiu die (ficut fama fert) temporibus certis reciprocat, fed temere in medun venti, nunc hunc nunc illuc versomari, velut monte pracipiti devolutui torrens rapitur. There is hardly a worse harbour, the fret or channel of Euripus not certainly ebbing or flowing seven times a day, according to common report: but being uncertainly, and in the manner of a wind on ried hither and thither, is whirled away as a torrent down a hill. Butthe experimental testimony of Gillius is most considerable of any: who having beheld the course thereof, and made enquiry of Millers that dwelt upon in shore, received answer, that it ebbed and flowed four times a day, thatis, every fix hours, according to the Law of the Ocean : but that indeed fametimes it observed not that certain course. And this irregularity, though feldom happening, together with its unruly and tumultuous motion, might afford a beginning unto the common opinion. Thus may the expression in Ctefiphon be made out : And by this may Aristotle be interpreted, when in his Problems he feems to borrow a Metaphor from Euripus: while in the five and twentieth Section he enquireth, why in the upper parts of houses the earth doth Euripize, that is, is whirled hither and thither,

A later and experimental testimony is to be found in the travels of Monfieur Duloir; who about twenty years ago, remained sometime at Negroponto, or old Chalcis, and also passed and repassed this Euripus; who thus expressed himself. I wonder much at the Error concerning the sur and reflux of Euripus; and I assure you that opinion is false. I gave a Boat-man a Crown, to set me in a convenient place, where for a whole day I might observe the same. It ebbeth and sloweth by six hours, even

as it doth at Penice, but the course thereof is vehement.

Now that which gave life unto the afferion, might be his death at Chalcis, the chief City of Enhea, and seated upon Enripus, where it is consessed by all he ended his days. That the emaciated and pined away in the too anxious enquiry of its reciprocations, although not drowned therein, as Rhodiginus relateth, some conceived, was a half confession thereof not justifiable from Antiquity. Surely the Philosophy of flux and resur was very imperfect of old among the Greeks and Latins; nor could they hold a sufficient theory thereof, who only observed the Mediterranean, which in some place, hath no ebb, and not much in any part. Nor can we affirm our knowledg is at the height, who have now the Theory of

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We Ocean and narrow Seas befide. While we refer it unto the Moon, we ave fome latisfaction for the Ocean, but no general falve for Creeks. Seas which know no flood , nor refolve why it flows three or four foot "Fenice in the bottom of the Gulf, yet scarce at all at Ancono, Darazzo, Coreyra, which lie but by the way. And therefore old abstrusties have cufed new inventions; and some from the Hypotheles of Copernicus, or Diurnal and annual motion of the earth, endeavour to faive flows and motions of these Seas, illustrating the same by water in a boal, that rising or falling to either fide, according to the motion of the veffel, the concit is ingenuous, salves some doubts, and is discovered at large by Galileo.

But whether the received principle and undeniable action of the Moon Reg BacdoRifmay not be ftill retained, although in some difference of application, is Cavem Mes, 2. vet to be perpended; that is, not by a simple operation upon the surphace How the or superiour parts, but excitation of the nicro-sulphureous spirits, and parts Moon may disposed to intumescency at the bottom; not by attenuation of the upper cause the chpart of the Sea, (whereby thips would draw more water at the flow than at bing and the ebb) but inturgescencies caused first at the bottom, and carrying the Sea. upper part before them: subsiding and falling again, according to the Motion of the Moon from the Meridian, and languor of the exciting cause: Why Rivers and therefore Rivers and Lakes who want these fermenting parts at the and Lakes ebb bottom, are not excited unto afterations; and therefore some Seas flow and flow not. Why some higher than others, according to the Plenty of thefe spirits, in their sub- Seas flow mine conflicutions. And therefore also the periods of flux and reflux are higher then various, nor their increase or decrease equal: according to the temper others, and of the terreous parts at the bottom : who as they are more hardly or eafily continue longer. moved, do varioully begin, continue or end their intumescencies.

From the peculiar disposition of the earth at the bottom, wherein quick Whence the excitations are made, may arise those Agars and impetuous flows in some violent flows aftuaries and Rivers, as is observable about Trent and Humber in Eng- proceed in some Estuaries land; which may also have some effect in the boilterous tides of Euripus, and Rivers. not only from ebullitions at the bottom, but also from the sides and lateral parts, driving the streams from either side, which arise or fall according to the motion in those parts, and the intent or remiss operation of the first acking causes, which maintain their activities above and below the Horizon; even as they do in the bodies of plants and animals, and in the

commotion of Catarrhes.

However therefore Arifforle died, what was his end, or upon what occilian, although it be not altogether affured, yet that his memory and wor. thyname shall live, no man will deny, nor grateful Scholar doubt, and if according to the Elogy of Solon, a man may be only said to be happy after he is dead, and ceaseth to be in the visible capacity of beatitude, or if according unto his own Ethicks, sense is not effential unto felicity, but a man may be happy without the apprehension thereof; surely in that sense he is pyramidally happy; nor can he ever perith but in the Luripe of Ignorance, or till the Torrent or Barbarilm overwhelmethall.

A like conceit there passeth of Melisigenes, alim Homer, the Father Poet, that he pined away upon the Riddle of the fishermen. But Heredotus who wrote his life hath cleared this point; delivering, that passing from Samos unto Athens, he went sick ashore upon the Island Ios, where he died, and was solemnly interred upon the Sea side; and so decidingly Homers death concludeth, Ex bac agritudine extremum diem clause: Homersu in lease, at arbitrantur aliqui, Enigmatis perplexitate enettus, selemorbe.

CHAP. XIV.

of the Wife of Philoxenus.

Hat Relation of Ariffotle, and conceit generally received concening Philoxenne, who wished the neck of a Crane, that therebyle might take more pleasure in his meat, although it pass without exception, upon enquiry I find not only doubtful in the story, but absurd in the defire or reason alledged for it. For though his Wish were fuch as is delivered, yet had it not perhaps that end, to delight his guft in eating; but rather to obtain advantage thereby in finging, as is declared by Miradula, Ariftotle (faith he) in his Ethicks and Problems, accufeth Philoxenses of fenfuality, for the greater pleasure of gust desiring the neck of a Crane; which defire of his, affenting unto Aristotle, I have formely condemned : But fince I perceive that Ariftotle for this accusation hath been accused by divers Writers. For Philoxensu was an excellent Musician, and defired the neck of a Crane, not for any pleasure at meat; but fancy. ing thereby an advantage in finging or warbling, and dividing the now in musick. And many Writers there are which mention a Musician of that name, as Plutarch in his book against usury, and Aristotle himself in the eighth of his Politicks, speaks of one Philoxenus a Musician, that went off from the Dorick Dithyrambicks unto the Phrygian Harmony.

Again, Be the story true or falle, rightly applied or not, the intention is not reasonable, and that pethaps neither one way nor the other. For if we rightly consider the Organ of tast, we shall find the length of the neck to conduce but little unto it. For the tongue being the instrument of tast, and the tip thereof an exact distinguisher, it will not advantage the gust to have the neck extended; Wherein the Guster and conveying parts are only seated, which partake not of the nerves of gustation, or appertaining unto sapar, but receive them only from the fixth pair; whereas the nerves of tast descend from the third and sourch propagations, and so disfuse

diffuse themselves into the tongue. And therefore Crancs, Herns and Swans have no advantage in taste beyond Hawks, Kites, and others of shorter necks.

Nor, if we confider it, had Nature respect unto the tafte in the different contrivance of necks, but rather unto the parts contained, the composure of the rest of the body, and the manner whereby they feed. Thus animals of long legs, have generally long necks; that is, for the conveniency of feeding, as having a necessity to apply their mouths unto the earth. So have Horses, Camels, Dromedaries long necks, and all call animals, except the Elephant, who in defect thereof is furnished with a Trunk, without which he could not attain the ground. So have Cranes, Herns, Storks and Shovelards long necks: and so even in Man, whose figure is erect, the length of the neck followeth the proportion of other parts: and fuch as have round faces or broad chefts and shoulders, have very seldom long necks. For, the length of the face twice exceedeth that of the neck, and the space betwixt the throat-pit and the navell, is equall unto the circumference thereof. Again, animals are framed with long necks, according unto the course of their life or feeding: so many with short legs have long necks, because they feed in the water, as Swans, Geese, Pelicans, and other finfooted animals. But Hawks and birds of prey have short necks and truffe leggs; for that which is long is weak and flexible, and a thorter figure is best accomodated unto that intention. Lastly, the necks of animals do vary, according to the parts that are contained in them, which are the weazon and the guller. Such as have no weazon and breath not, have scarce any neck, as most forts of fishes; and some none at all, as all forts of pectinals, Soals, Thornback, Flounders; and all crustaceous animals, as Crevises, Crabs and Lobsters.

All which confidered, the Wish of Philoxenus will hardly consist with reason. More excusable had it been to have wished himself an Ape, which if common conceit speak true, is exacter in taste then any. Rather some kind of granivorous bird then a Crane, for in this sense they are so exquisite that upon the first peck of their bill, they can distinguish the qualities of hard bodies; which the Tense of man discerns not without mastication. Rather some ruminating animal, that he night have eat his meat twice over; or rather, as Theophilus observed in Atheneus, his desire had been more reasonable, had he wished himself an Elephan, or an Horse; for in these animals the appetite is more vehement, and they receive their viands in large and plenteous manner. And this indeed had been more sutable, if this were the same Philoxenus whereof Platarch speak the who was so uncivilly greedy, that to engross the mess, he would preventively deliver

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As for the infical advantage, although it feem more reasonable, yet do we not observe that Cranes and birds of long necks have any musical, but, harsh and clangous throats. But birds that are canorous, and whose notes we most commend, are of little throats and short necks, as Nightingales,

Finches,

Finches, Linnets, Canary birds and Larks. And truly, although the weszon, throtle and tongue be the instruments of voice, and by their agitations do chiefly concurr unto these delightfull modulations, yet cannot we distinctly and peculiarly assign the cause unto any particular formation; and I perceive the best thereof, the nightingale, hath some disadvantage in the tongue; which is not accuminate and pointed as in the rest, but seemeth as it were cut off, which perhaps might give the hint unto the sable of Philometa, and the cutting off her tongue by Terens.

CHAP. XV.

of the Lake Asphaltites.

Oncerning the Like Asphaltites, the Lake of Sodom, or the dead Sea, that heavy bodies cast therein fink not, but by reason of a salt and bituminous thickness in the water float and swim above, narrations already made are of that variety, we can hardly from thence deduce a facisfactory determination; and that not only in the flory it felf, but in the cause alledged. As for the story, men deliver it variously: some I fear too largely, as Pliny, who affirmeth that bricks will swim therein. Mandevil goeth farther, that Iron swimmeth, and feathers fink. Munfter in his Cosmography hath another relation, although perhaps derived from the Poem of Tertullian, that a candle Burning swimmerh, but if extinguished finketh. Some more moderately, as fofephus, and many others : affirming only that living bodies float, nor peremptorily averring they cannot fink, but that indeed they do not easily descend, Most traditionally, as Galen, Pliny, Solinas and Strabo, who feems to miltake the Lake Serbonis for it. Few experimentally, most contenting themselves in the experiment of Vespasian, by whose command some captives bound were cast therein, and found to float as though they could have fwimmed: divers contradictorily, or contrarily, quite overthrowing the point. Aristotle in the second of his Mercors speaks lightly thereof, wood purposon, which word is variously rendred, by some as a fabulous account, by some as a common talk, Biddulphus divideth the common accounts of Judea in three parts, the one faith he, are apparent Truths, the second apparent fallhoods, the third are dubious or between both; in which form he ranketh the relation of this Lake. But Andrew Thevet in his Cosmography doth ocularly overthrow its for he affirmeth, he faw an As with his Saddle cast therein and drowned. Now of these relations so different or contrary unto each other, the second as most moderate and safest to be embraced, which saith, that living bodies Swim therein, that is, they do not easily fink ; and this, untill exact experiment

Bladulphi itinerarium Anglice, periment furcher determine, may be allowed, as bett confittent with this

quality, and the reasons alledged for it.

As for the cause of this effect, common opinion conceives it to be the sale and bituminous thickness of the water. This indeed is probable, and may be admitted as far as the second opinion concedeth. For certain it is that falt water will support a greater burden then fresh; and we see an egg will descend in sale water, which will swim in brine. Bur that Iron hould float therein, from this cause is hardly granted; for heavy bodies will only fwim in that liquor, wherein the weight of their bulk exceedeth not the weight of fo much water as it occupieth or taketh up. But furely no water is heavy enough to answer the ponderosity of Iron, and therefore that mercal will fink in any kind thereof, and it was a perfect Miracle which was wrought this way by Elisha. Thus we perceive that bodies do swim or fink in different liquors, according unto the tenuity or gravity of those liquors which are to support them. So falt water beareth that we ght which will fink in vineger, vineger that which will fall in fresh water, fresh water that which will fink in spirits of Wine, and that will swim in spirits of Wine which will fink in clear oyl; as we made experiment in globes of was pierced with light flicks to support them. So that although it be conceived an hard matter to fink in oyl, I believe a man should find it very difficult, and next to flying, to swim therein. And thus will Gold fink in Quick-filver, wherein Iron and other metals swim; for the bulk of Gold isonly heavier then that space of Quick-filver which it containeth : and thus also in a solution of one ounce of Quick-filver in two of Aqua fortis . the liquor will bear Amber, Horn, and the foster kinds of stones, as we have made triall in each.

But a private opinion there is which croffeth the common conceir, maintained by some of late, and alleadged of old by Strabo, that the floating of bodies in this Lake proceeds not from the thickness of the water, but a bituminous ebullition from the bottom, whereby it wasts up bodies injected, and suffereth them not easily to fink. The verity thereof would be enquired by ocular exploration, for this way is also probable. So we observe, it is hard to wade deep in baths where springs arise; and thus

sometime are bals made to play upon a spouting fream.

And therefore, until judicious and ocular experiment confirm or difinguish the affertion, that bodies do not fink herein at all, we do not yet believe; that they not easily, or with more difficulty descend in this than other water, we shall readily affent. But to conclude an impossibility from a difficulty, or affirm whereas things not easily sink, they do not drown at all; beside the fallacy, is a frequent addition in humane expression, and an amplification not unusual as well in opinions as relations; which oftentimes give indistinct accounts of proximities, and without restraint transcend from one another. Thus, for a simuch as the torrid Zone was conceived exceeding hot, and of difficult habitation, the opinions of men so advanced is constitution, as to conceive the same unhabitable, and beyond possibility

possibility for man to live therein. Thus, because there are no Wolves in England, nor have been observed for divers generations, common people have proceeded into opinions, and some wise men into affirmations, they will not live therein, although brought from other Countries. Thus most men affirm, and sew here will believe the contrary, that there be no Spiders in Ireland; but we have beheld some in that Country; and though but sew, some Cob-webs we behold in Irish wood in England. Thus the Crocodise from an egg growing up to an exceeding magnitude, common conceit, and divers Writers deliver, it hath no period of encrease, but groweth as long as it liveth. And thus in brief, in most apprehensions the conceits of men extend the considerations of things, and dilate their nostions beyond the propriety of their natures.

In the Mapps of the dead Sea or Lake of Sodom, we meet with the destroyed Cities, and in divers the City of Sodom placed about the middle, or far from the shore of it; but that it could not be far from Segor, which was seated under the mountains neer the side of the Lake, seems inferrible from the sudden arrival of Lot, who coming from Sodom at day break, attained Segor at Sun rising; and therefore Sodom to be placed not many miles from it, and not in the middle of the Lake, which is accounted about eighteen miles over; and so will leave about nine miles to be passed in too small a space of time.

CHAP. XVI.

Of divers other Relations.

The relation of Averroes, and now common in every mouth, of the woman that conceived in a bath, by attracting the sperm or seminal effluxion of a man admitted to bath in some vicinity unto her, I have scarce faith to believe; and had I been of the Jury, should have hardly thought I had sound the father in the person that stood by her. 'Tis a new and unseconded way in History to fornicate at a distance, and much offendeth the rules of Physick, which say, there is no generation without a joynt emission, nor only a virtual, but corporal and carnal contaction. And although Aristosle and his adherents do cut off the one, who conceive no effectual ejaculation in women, yet in desence of the other they cannot be introduced. For, if as he believeth, the inordinate longitude of the organ, though in its proper recipient, may be a means to inprolificate the seed; surely the distance of place, with the commixture of an aqueous body, must prove an effectual impediment, and utterly prevent the success of Lot, that

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that they were impregnated by their fleeping father, or conceived by feminal nollution received at distance from him, will hardly be admitted. And herefore what is related of devils, and the contrived delutions of fpirits . Generations be that they steal the seminal emissions of man, and transmit them into their the Devilvery potarics in coition, is much to be suspected; and altogether to be denied, improbable, that there enfue conceptions thereupon; however husbanded by Art, and the wifest menagery of that most subtile imposter. And therefore also that our magnified Merlin, was thus begotten by the devil, is a groundless conception; and as vain to think from thence to give the reason of his prophetical spirit. For if a generation could succeed, yet should not the ifue inherit the faculties of the devil, who is but an auxiliary, and no misocal Actor; Nor will his nature substantially concur to such pro-

And although it feems not impossible, that impregnation may succeed from seminal spirits, and vaporous irradiations containing the active principle, without material and gross immissions; as it happeneth sometimes in imperforated perfons, and rare conceptions of some much under pubertie or fourteen. As may be also conjectured in the coition of some insects, wherein the female makes intrufion into the male; and from the continued ovation in Hens, from one fingle tread of a cock, and little stock laid up near the vent, sufficient for durable prolification. And although also in humane generation the gross and corpulent feminal body may return again, and the great business be acted by what it carreth with it : yet will not the fame suffice to support the story in question, wherein no corpulent immission is acknowledged; answerable unto the fable of the Talmudists, in the florie of Benzira, begotten in the same manner on the daughter of the

Prophet Feremie.

2. The Relation of Lucillius, and now become common, concerning Craffus the grand-father of Marine the wealthy Roman, that he never laughed but once in all his life, and that was at an Afs caring thiftles, is forething frange. For f an indifferent and unridiculous object could draw his habitual aufterenels unto a smile; it will be hard to believe he could with perpetuity refift the proper motives thereof, For the act of Laughter which is evidenced by a fweet contraction of the muscles of the face, and a Laughter pleasant agitation of the vocal Organs, is not meetly voluntary, or totally What kind of within the jurifdiction of our felves a but as it may be conftrained by cor- Passion it isporal contaction in any, and bath been enforced in some even in their death fo the new unufual or unexpected jucundities, which prefent themselves to any man in his life, at some time or other will have activity enough to excitate the earthiest foul, and raise a smile from most composed tempers. Certainly the times were dull when these things happened, and the wits of those Ages thort of theseof ours; when men could maintain such immutable faces, as to remain like statues under the flatteries of wit and perfist unalterable at all efforts of Jocularity. The spirits in hell, and Pluto himself, whom Lucian makes to laugh at passages upon earth, will plainly condemn these

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these Saturnines, and make ridiculous the magnified Heraclicus, who wept prepofteroully, and made a hellon earth; for rejecting the confolarions of life, he paffed his days in tears, and the uncomfortable attendment of hell.

3. The same conceit there passeth concerning our blessed Saviour, and is fometimes urged as an high example of gravity. And this is opinioned. because in holy Scripture it is recorded he sometimes wept, but never that Which howfoever granted, it will be hard to conceive how he laughed. he passed his yonger years and child-hood without a smile, if as Divinity affirmeth, for the affurance of his humanity unto men, and the concealment of his Divinity from the devil, he paffed this age like other children, and to proceeded untill he evidenced the fame. And furely herein no denser there is to affirm the act or performance of that, whereof we acknowledge the power and effential property; and whereby indeed he most nearly convinced the doubt of his humanity. Nor need we be afraid to afcribe that unto the incarnate Son, which sometimes is attributed unto the uncarnate Father : of whom it is faid, He that dwelleth in the heavens shall laugh the wicked to fcorn. For a laugh there is of contempt or indignation. as well as of mirth and Jocofity; And that our Saviour was not exempted from the ground hereof, that is, the passion of anger, regulated and rightly ordered by reason, the schools do not deny: and besides the experience of the money-changers, and Dove-fellers in the Temple, is testified by St. Film, when he faith, the speech of David was fulfilled in our Saviour.

Now the Alogie of this opinion confifteth in the illation; it being not

reasonable to conclude from Scripture negatively in points which are ne, matters of faith, and pertaining unto falvation. And therefore although in the description of the creation there be no mention of fire, Christian Philosophy did not think it reasonable presently to annihilate that element. or positively to decree there was no such thing at all. Thus whereas in the brief narration of Mofes there is no record of wine before the flood, we cannot fatisfactorily conclude that Wood was the first that ever tasted there. of. And thus because the word Brain is scarce mentioned once, but Hours above an hundred times in holy Scripture; Physicians that dispute the

principality of parts are not from hence induced to bereave the animal Organ of its priority. Wherefore the Scriptures being ferious, and commonly omitting fuch Parergies, it will be unreasonable from hence to condemn all Laughter, and from confiderations inconfiderable to discipline a man out of his nature. For this is by a ruftical severity to banish all urbanity; whose

harmless and confined condition, as it stands commended by morality; so is it confishent with Religion, and doth not offend Divinity,

4. The cuftom it is of Popes to change their name at their creation; and the Author thereof is commonly faid to be Bocca di porco, or swines face; who therefore affumed the file of Sergiss the second, as being ashamed so foul's name (hould diffeonour the chair of Peter; wherein notwith francing, from Montaentim and others I find these may be some mistake. For Mallonim

Trise domm ana comed-

Only in the uniger Latio. Indg. 9: 51.

Maffenine who writ the lives of Popes, acknowledgeth he was not the first het changed his name in that Sea; nor as Platine affirmeth, have all his Seccessors precisely continued that custom; for Adrian the fixt, and Mercelles the second, did still recain their Baptismal denomination. Nor wit proved, or probable, that Sergiss changed the name of Bocca di Porce. for this was his firname or gentilitious appellation : nor was it the cultom to alter that with the other; but he commuted his Christian name Peter for Sergim, because he would feem to decline the name of Peter the fecond. A scruple I confess not thought confiderable in other Seas, whose Originals and first Patriarchs have been less disputed; nor yet perhaps of that reality n to prevail in points of the same nature. For the names of the Apostles. Patriarchs and Prophets have been assumed even to affectation; the name of lefus with not been appropriate; but some in precedent ages have born hat name, and many fince have not refused the Christian name of Emman. mi. Thus are there few names more frequent then Mofes and Abraham among the Tews; The Tarks without scruple affect the name of Mahomet. and with gladness receive so honourable cognomination.

And truly in humane occurrences there ever have been many well directed intentions, whose rationalities will never bear a rigid examination, and though in some way they do commend their Authors, and such as first bean them, yet have they proved insufficient to perpetuate imitation in such as have succeeded them. Thus was it a worthy resolution of Godfrey, and most Christians have applauded it, That he resuled to wear a Crown of Gold where his Saviour had worn one of thorns. Yet did not his Successfors durably inherit that scruple, but some were anointed, and solemnly accepted the Diadem of regality. Thus Jalim, Angustum and Tiberium with great humility or popularity resuled the name of Imperator, but their Successors have challenged that title, and retain the same even in its titularity. And thus to come nearer our subject, the humility of Gregory the Great, would by no means admit the stile of universal Bishop; but the ambition of Boniseer made no scruple thereof, nor of more quessie resolutions have been

their Successors ever fince.

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others, from Albazen a learned Arabian who wrote his life, and was sy.

Spectator of many of his exploits, we have reasons to deny. Not only from his birth, for he was of the blood of the Tartarian Emperours, whose father Og had for his possession the Country of Sugarby; which was no stender Territory, but comprehended all that track wherein were contained Battriana, Sogdiana, Margiana, and the nation of the Massagetes, whose capital City was Samarcand; a place though now decaid, of great esteem and trade in former ages. But from his regal Inauguration, for it is said, that being about the age of fifteen, his old father refigued the Kingdom, and men of war unto him. And affor from his education, for as the storie speaks it, he was instructed in the Arabian searning, and afterward exercised himself therein. Now Arabian learning was in a manner all the

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liberal S. iences, effectally the Mathematicks, and natural Philosophy a wherein not many ages before him there flourished Avicenna, Averroes, Avenzoar, Geber, Almanzor and Albazen, cognominal unto him that wrote his History, whole Chronology indeed, although it be obfaire, yet in the opinion of his Commentator, he was contemporary unto Avicenna and hath left fixteen books of Opticks, of great efteem with ages paft, and

texuary unto our days.

Now the ground of this miffake was furely that which the Turkish Histo. rian declareth. Some, faith he, of our Historians will needs have Tamer. lane to be the Son of a Shepherd, But this they have faid, not knowing at all the custom of their Country; wherein the principle revenews of the King and Nobles confiftesh in cattle; who despising gold and silver, abound in all forts thereof. And this was the occasion that some men call them Shepherds, and also affirm this Prince descended from them. Now, if it be reasonable, that great men whose poss sions are chiefly in cattle, should bear the name of Shepherds, and fall upon so low denominations; then may we say that Abraham was a Shepherd, although too powerful for four Kings: that Job was of that condition, who befide Camels and Oxen had feven thousand-Sheep; and yet is said to be the greatest man in the East. Thus was Mesha King of Moab a Shepherd, who annually paid unto the Crown of Ifrael, an hundred thousand Lambs, and as many Rams. Surely it is no dishonourable course of life which Moses and Ja. cob have made exemplary: 'cis a profession supported upon the natural way of acquificion, and though contemned by the Egyptians, much countenanced by the Hebrews, whole facrifices required plenty of Sheep and Lambs, And certainly they were very numerous; for, at the confecration on of the Temple, befide two and twenty thousand Oxen, King Solomon facrificed an hundred and twenty thousand Sheep: and the same is observable from the daily provision of his house: which was ten fat Oxen, ewenty Oxen out of the pastures, and an hundred Sneep, beside row Buck, fallow Deer, and fatted Fowls. Wherein notwithstanding (if a punctual relation thereof do rightly inform us) the grand Seignior doth exceed : the of the Turkish daily provision of whose Seraglio in the reign of Achmet, beside Beeyes, confumed two hundred Sheep, Lambs and Kids when they were in scalon daily provision one hundred, Calves ten, Geese fifty, Hens two hundred, Chickens one of the Seraglio. bundred, Pigeons an hundred pair.

Defeription Seraglio, fince printed. The

And therefore this mistake concerning the noble Tamerlane, was like that concerning Demost benes, who is faid to be the Son of a Black-Imith, according to common conceit, and that handsome expression of Tave MAL.

> Quem pater ardentis massa fuligine lippus. A carbone & forcipibus, gladiofq parante Incudes, & Inteo Valcano ad Rhetera mifit,

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Thus Englished by Sir Robert Stapleton.

Whom's Father with the fmoaky forg half blind, From blows on footy Vulcans anvil spent. In ham'ring fwords, to fludy Rhev'rick fent.

But Plutarch who writ his life hath cleared this conceit, plainly affirming he was most nobly descended, and that this report was raised, because his father had many flaves that wrought Smiths work, and brought the profit unto him.

CHAP. XVII.

Of some others.

TE are sad when we read the story of Belisaring that worthy Chiestain of Justinian; who, after his Victories over Vandals, Goths, Persians, and his Trophies in three parts of the World, had at last his eyes put out by the Emperour, and was reduced to that distress, that he begged relief on the high-way, in that uncomfortable petition, Date obolum Belifario. And this we do not only hear in Difcourses, Orations and Themes, but find it also in the leaves of Petrus Crinitus, Volaterranus, and other worthy Writers.

But, what may somewhat consolate all men that honour vertue, we do not discover the latter Scene of his Misery in Authors of Antiquity, or fuch as have exprelly delivered the stories of those times. For, Suidas is ffent herein, Cedrenus and Zonarus, two grave and punctual Authors, delivering only the confiscation of his goods, omit the History of his mendication. Paulus Diaconus goeth farther, not only paffing over this act, but affirming his goods and dignities were restored. Agathius who lived at the fame time; declareth he fuftered much from the envy of the Court: -but that he descended thus deep into affliction, is not to be gathered from - his peris The fame is also omitted by Procopius a contemporary and pro- Anix dom, or fessed enemy unto Justinian and Belisarius, who hath left an approbrious Areans bifte book against them both.

And in this opinion and hopes we are not fingle, but Andreas Alciatus the Civilian in his Parerga, and Franciscus de Corins in his Didascalia, have both declaratorily confirmed the fame, which is allo agreeable unto the judgment of Nicolasso Alemanying in his above upon the buter Hifto-

Procop. bell.

Mounted ay.

Perfic. 1. Agrov no Bory of Procopius. Certainly fad and Tragical stories are seldom drawn within the circle of their verities; but as their Relators do either intend the harred or pitty of the persons, so are they fet forth with additional amplifications. Thus have some suspected it hath happened unto the story of Oedipus; and thus do we conceive it hath fared with that of Judas. who having finned beyond aggravation, and committed one villany which cannot be exasperated by all other; is also charged with the murther of his reputed brother, parricide of his father, and 'ncest with his own mother, as Florilegus or Matthew of Westminster hath at large related. And thus bath it perhaps befallen the noble Belifarius; who, upon inftigation on of the Empress, having contrived the exile, and very hardly treated Pope Serverius, Latin pens, as a judgment of God upon this fact, have fer forth his future fufferings: and omitting nothing of amplification. they have also delivered this: which notwithflanding Johannes the Greek, makes doubful, as may appear from his Jambieks in Baronius, and might be a mistake or misapplication, translating the affliction of one man upon another, for the same befell unto Johannes Cappadox, contemporary unto Belifarius, and in great favour with Justinian; who being afterward banished into Egypt, was fain to beg relief on the high-way.

2. That flutim Decumanus, or the tenth wave is greater and more dangerous than any other, some no doubt will be offended if we deny; and hereby we shall seem to contradict Antiquity; for, answerable unto the litteral and common acception, the same is averted by many Writers,

and plainly described by Ovid.

Qui venit hie fluctus, fluctus superemines omnes, Pasterior nono est, undecimog, prior.

Which notwithstanding is evidently false; nor can it be made out by obfervation either upon the shore or the Ocean, as we have with diligence explored in both. And surely in vain we expect a regularity in the ways of the Sea, or in the particular motions thereof, as we may in its general reciprocations whose causes are constant, and effects therefore correspondent. Whereas its sluctuations are but motions subservient; which winds, storms, shores, shelves, and every interjacency irregulates. With semblable reason we might expect a regularity in the winds; whereof though some be starry, some anniversary, and the rest do tend to determinate points of heaven, yet do the blass and undulary breaths thereof maintain no certainty in their course; nor are they numerally seared by Nawigators.

Of affinity hereto is that conceit of Ovum Decumanum, so called, because the tenth egg is bigger than any other, according unto the reason alledged by Festus, Decumana ova dicuntur, quia ovum decimum majus nascitur. For the honour we bear unto the Clergy, we cannot but wish this true: but herein will be found no more of verity than in the other:

and

and furely few will affent hereto without an implicite credulity, or Pytha.

gotical submission unto every conception of number.

For, furely the conceit is numeral, and though not in the fense apprehended, relateth unto the number of ten, as Franciscus Sylvius hath most probably declared. For, whereas amongst simple numbers or Digits, the number of ten is the greatest : therefore whatsoever was the greatest in every kind, might in some sense be named from this number. Now, because also that which was the greatest, was metaphorically by some at first called Decumanus; therefore wharfoever paffed under this name, was literally conceived by others to respect and make good this number.

The conceit is also Latin; for the Greeks to express the greatest wave. do use the number of three, that is, the word remuple, which is a concurrence of three wayes in one, whence arose the proverb, resumin mexico, or a trifluctuation of evils, which Erasmus doth render, Malorum Auftus Decumanus. And thus, although the terms be very different, ver are they made to fignifie the felf-fame thing; the number of ten to explain the number of three, and the fingle number of one wave the collective con-

currence of more.

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3. The poylon of Parylatis reported from Ctelias by Plutarch in the life of Artaxerxes, whereby anointing a knife on the one fide, and therewith dividing a bird; with the one half the poyfoned Statira, and fafely fed her felf on the other, was certainly a very fubtile one, and fuch as our ignorance is well content it knows not. But furely we had discovered a poyson that would not endure Pandoraes box, could we be satisfied in that which for its coldness nothing could contain but an Asses hoof, and wherewith some report that Alexander the great was poyloned. Had men derived so strange an effect from some occult or hidden qualities, they might have filenced contradiction; but ascribing it unto the manifest and open qualities of cold, they must pardon our belief; who perceive the coldest and most Stygian waters may be included in glasses; and by Aristotle who faith, that glafe is the perfecteft work of Art, we understand they were not then to be invented.

And though it be said that poyson will break a Venice glass, yet have we not met with any of that nature. Were there a truth herein, it were the best preservative for Princes and persons exalted unto such fears: and furely far better than divers now in use. And though the best of China dishes, and such as the Emperour doth use, be thought by some of infallible vertue unso this effect; yet will they not, I fear, be able to elude the mischief of such intentions. And though also it be true, that God made all things double, and that if we look upon the works of the most High, there are two and two, one against another; that one contrary hath ano. In what sense there are two and two, one against authorit; that one content, the curfe God Almighther, and poylon is not without a poylon unto it felf; yet hath the curfe ty hath created fo far prevailed, or elle our induftry defected that poyfons are better all things dow known than their Antidotes, and some thereof do scarce admit of any. ble. And laftly, although unto every poylon men have delivered many Anti-

dores, and in every one is promifed an equality unto its adverfary, yet do Terra Melites, we often find they fail in their effects: Moly will not refift a weaker con then that of Circe; a man may be porsoned in a Lemnian dith; without the miracle of John, there is no confidence in the earth of Pant; and if it be meant that no poyfon could work upon him, we doubt the flory, and expect no fuch success from the diet of Mubridates.

A flory there passeth of an Indian King, that sent unto Alexandera fair woman fed with Aconites and other poyfons, with this intent, either by converse or copulation complexionally to destroy him. For my part, although the defign were true, I should have doubted the success. For, though it be possible that poylons may meet with tempers whereto they may become Aliments, and we observe from fowls that feed on fishes, and others fed with garlick and onyons, that simple aliments are not alwayes concocled beyond their vegetable qualities; and therefore that even after carnall conversion, poylons may yet retain some portion of their natures; yet are they so refracted, cicurated and subdued, as not to make good their first and destructive malignities. And therefore the Stork that eateth Snakes, and the Stare that feedeth upon Hemlock, though no commendable aliments, are not destructive poysons. For, animals that can innoxiously digest these poylons, become antidotall unto the poylon digested. And therefore whether their breath be attacted, or their fiesh ingested, the poylonous reliques go fill along with their Antidote : whose society will not permit their malice to be destructive. And therefore also animals that are not mischieved by poysons which destroy us, may be drawn into Antidote against them; the blood or flesh of Storks against the venom of Serpents, the Quail against Hellebore, and the diet of Starlings against the drought of Socrates. Upon like grounds are some parts of Animals Alexipharmacall unto others; and some veins of the earth, and also whole regions, not only destroy the life of venemous creatures, but also prevent their productions. For though perhaps they contain the seminals of Spiders and Scorpions, and fuch as in other earths by suscitiation of the Sun may arise unto animation; yet lying under command of their Antidote, without hope of emergency they are poyloned in their matrix by powers easily hindring the advance of their originals, whose confirmed forms they are able to destroy.

Hemlock.

5. The story of the wandring Jew is very strange, and will hardly obtain belief ; yet is there a fermall account thereof fet down by Mathem Paris, from the report of an Armenian Bilhop; who came into this kingdom about four hundred years ago, and had often entertained this wanderer at That he was then alive, was first called Cartaphilus, was keeper of the Jadgement Hall, whence thrusting out our Saviour with exposulation

Vade quid mo- of his Itay, was condemned to flay untill his return; was after baptized rain? Ego va- by Ananias, and by the name of Foseph; was thirty years old in the dayes do, tu autem of our Siviour, remembred the Saints that arifed with him, the making of morare donec the Apostles Creed, and their several peregrinations. Surely were this venio.

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true, he might be an happy arbitrator in many Christian controversies : but must impardonably condemn the obstinacy of the Jews, who can contemn the Rhetorick of fuch miracles, and blindly behold to living and lasting conversions.

6. Clearer confirmations must be drawn for the history of Pope Foan. who succeeded Lee the fourth, and preceeding Benedict the third, then many we yet discover. And fince it is delivered with aiunt and ferunt by many; fince the learned Leo Allatins hath discovered, that ancient copies Confutatio fe of Martinus Polonus, who is chiefly urged for it, had not this fory in it ; bule de loenna fince not only the Aream of Latine Historians have omitted it, but Photius Papisfa cum the Patriarch, Metrophanes Smyrneus, and the exasperated Greeks have Nihufier made no mention of it, but conceded Benedict the third to bee Successor unto Les the fourth; he wants not grounds that doubts it.

Many things hiftoricall which feem of clear concellion, want not affirmations and negations, according to divided pens: as is notoriously observable in the story of Heldebrand or Gregory the seventh, repugnantly delivered by the Imperiall and Papal party. In such divided records partiality hath much deprayed history, wherein if the equity of the reader do not correct the iniquity of the writer, he will be much confounded with repugnancies, and often find in the same person, Numa and Nero. In things of this nature moderation must intercede; and so charity may hope, that Roman Readers will confirm many passages in Bolfech, Fayus, Schluffelberg Of Luther. and Cochlaus.

7. Every ear is filled with the flory of Friet Bacon, that made a brazen head to speak these words, Time is, Which though there want not the like Rog. Bacon. telations, is surely too literally received, and was but a mystical fable con-minorita. Ox terning the Philosophers great work, wherein he eminently laboured : doffisimm. implying no more by the copper head, then the veffel wherein it was wrought, and by the words it spake, then the opportunity to be watched. about the Tempus ortus, or birth of the mystical child, or Philosophical King of Lullius: the rifing of the Terra foliata of Arnoldus, when the earth sufficiently impregnated with the water, ascendeth white and Which not observed, the work is irrecoverably lost; according to that of Petrus Bonus. Ibi est operis perfectio aut annihilatio; quoniam ipfa die, immo horà, oriuntur elementa simplicia depurata, qua egent Margarisa) fatim compositione, antequam volent ab igne.

Now letting flip this critical opportunity, he miffed the intended Which had he obtained, he might have made out the tradition' of making a brazen wall about England. That is, the most powerfull defence, and strongest fortification which Gold could have effected.

8. Who can but pitty the vertuous Epicurus, who is commonly conceived to have placed his chief felicity in pleasure and sensual delights, and hath therefore left an infamous name behind him? How true, let them determine who read that he lived feventy years, and wrote more books then any Philosopher but Chrysppus, and no less then three hundred, with-Kkk

our borrowing troin any Au.nor. That he was contented with bread and water, and when he would dine with fove, and presend unto epulation. he defired no other addition then a piece of Cytheridian cheefe. That thall confider the words of Seneca, Non dico, quod plerig; noftrorum, fettam Epicuri flagitiorum magistrum effe : fed illud dico, male andit infamis eff. d'immerito. Or shall read his life, his Epistles, his Testament in Laertim, who plainly names them Calumnies, which are commonly said against them.

The ground hereof feems a mif-sprehension of his opinion, who placed his Felicity not in the pleasures of the body, but the mind, and tranquility thereof, obtained by wildom and vertue, as is clearly determined in his Epistle unto Manaceus. Now how this opinion was first traduced by the Stoicks, how it afterwards became a common belief, and so taken up by Authors of all ages, by Cicero, Plutarch, Clemens, Ambrofo and others;

the learned Pen of G. ffende hath discovered.

De vita & morthus Epiexti.

CHAP. XVIII.

More briefly of some others.

Ther relations there are, and those in very good Authors, which chough we do not politively deny, yet have they not been unquestioned by fome, and at leaft as improbable truths have been received by others. Unto some it hath seemed incredible what Herodotsus reporteth of the great Army of Xermes, that drank whole rivers dry. And unto the Author himfelf it appeared wondrous strange, that they exhausted not the provision of the Countrey, rather then the waters thereof. For as he maketh the account, and Budens de Affe correcting the mil-compute of Valla, delivereth it; if every man of the Army had had a chenix of Corn a day, that is, a sextary and half; or about two pints and a quarter, the Army had daily expended ten hundred thousand and forty Medimna's, or measures containing fix Bushles. Which rightly considered, the Abderites had reason to bless the Heavens, that Xerxes eat but one meal a day; and Pythine his noble Hoft, might with less charge and possible provision entertain both him and his Army. And yet may all be salved, if we take it hyperbolically, as wife men receive that expression in Fob, concerning Behemoth or the Elephant ; Behold, he drinketh up a river and hafteth not, he truffeth that he can draw up fordan into his mouth.

2. That Annibal eat or brake through the Alps with Vinegar, may be too grofly taken and the Author of his life annexed unto Platarch affirmeth only haved this artifice upon the tops of some of the highest mountains.

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For as it is vulgarly understood, that he cut a passage for his Army through those mighty mountains, it may seem incredible, not only in the greatness of the effect, but the quantity of the efficient and such as behold them, may think an Ocean of Vinegar too little for that effect. 'Twas a work indeed rather to be expected from earthquakes and inundations, then any corrosive waters, and much condemneth the Judgement of Xerxes, that wrought through Mount Athes with Mattocks.

3. That Archimedes burnt the ships of Marcellus, with speculums of parabolical figures, at three sutlongs, or as some will have it, at the distance of three miles, sounds hard unto reason, and artificial experience: and therefore justly questioned by Kircherus, who after long enquiry could find but one made by Manfredus Septalius that fixed at fifteen paces. De luced and therefore more probable it is, that the ships were nearer the shore, bra, or about some thirty paces: at which distance notwithstanding the effect was very great. But whereas men conceive the ships were more easily set on slame, by reason of the pitch about them, it seemeth no advantage.

Since burning glasses will melt pitch or make it boyl, not easily set it on

4. The story of the Fabis, whereof three hundred and fix marching against the Veientes, were all slain, and on child alone to support the samily remained; is surely not to be paralleld, nor easie to be conceived, except we can imagine, that of three hundred and fix, but one had children below the service of war; that the rest were all unmarried, or the wife

but of one impregnated.

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The ground hereof seems a mis-apprehension of his opinion, who placed his Felicity not in the pleasures of the body, but the mind, and tranquility thereof, obtained by wisdom and vertue, as is clearly determined in his Epistle unto Manaceus. Now how this opinion was first traduced by the Stoicks, how it afterwards became a common belief, and so taken up by Authors of all ages, by Cicero, Plutarch, Clemens, Ambroso and others;

the learned Pen of G. ffende hath discovered.

De vita & morthus Epi-

CHAP. XVIII.

More briefly of some others.

Ther relations there are, and those in very good Authors, which chough we do not politively deny, yet have they not been unquestioned by fome, and at least as improbable truths have been received by others, Unto some it hath seemed incredible what Herodotsus reporteth of the great Army of Xerwes, that drank whole rivers dry. And unto the Author himfelf it appeared wondrous strange, that they exhausted not the provision of the Countrey, rather then the waters thereof. For as he maketh the account, and Budens de Affe correcting the mil-compute of Valla, delivereth it; if every man of the Army had had a chenix of Corn a day, that is, a sextary and half; or about two pints and a quarter, the Army had daily expended ten hundred thousand and forty Medimna's, or measures containing fix Bushles. Which rightly considered, the Abderites had reason to bless the Heavens, that Xerxes eat but one meal a day; and Pythine his noble Hoft, might with less charge and possible provision entertain both him and his Army. And yet may all be falved, if we take it hyperbolically, as wife men receive that expression in Fob, concerning Behemoth or the Elephant ; Behold, he drinketh up a river and hafteth not, he truffeth that he can draw up fordan into his mouth.

2. That Annibal eat or brake through the Alps with Vinegar, may be too grofly taken and the Author of his life annexed unto Plutareh affirmeth only. he weed this artifice upon the tops of fome of the highest mountains.

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For as it is vulgarly understood, that he cut a passage for his Army through those mighty mountains, it may seem incredible, not only in the greatness of the effect, but the quantity of the efficient and such as behold them, may think an Ocean of Vinegar too little for that effect. 'I was a work indeed rather to be expected from earthquakes and inundations, then any corrosive waters, and much condemneth the Judgement of Xerxes, that wrought through Mount Athos with Mattocks.

3. That Archimedes burnt the ships of Marcellus, with speculums of parabolical figures, at three sutlongs, or as some will have it, at the distance of three miles, sounds hard unto reason, and artificial experience: and therefore justly questioned by Kircherus, who after long enquiry could find but one made by Manfredus Septatius that fired at fifteen paces. Deluced and therefore more probable it is, that the ships were nearer the shore, bra, or about some thirty paces: at which distance notwithstanding the effect was very great. But whereas men conceive the ships were more easily set on slame, by reason of the pitch about them, it seemeth no advantage. Since burning glasses will melt pitch or make it boyl, not easily set it on fire.

4. The story of the Fabis, whereof three hundred and fix marching against the Veientes, were all slain, and on child alone to support the samily remained; is surely not to be paralleld, nor easie to be conceived, except we can imagine, that of three hundred and fix, but one had children below the service of war; that the rest were all unmarried, or the wife

but of one impregnated.

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or instance against the motion of the earth.

An argument very great miltane in the peripicacy of that Animai. Some men critically disposed, would from hence confute the opinion of Copernicus, never conceiving how the motion of the earth below, should not wave him from a knock perpendicularly directed from a body in the air above,

7. It croffeth the Poverb, and Rome might well be built in a day; if that were true which is traditionally related by Strabo; that the great Ci. ties Anchiale and Tarsus, were built by Sardanapalus both in one day,according to the inteription of his monumen, Sardanapalus Anacyndarasis filius, Anchialem & Tarfum una die edificavi, Tu autem hofpes Ede. Lude, Bibe, &c. Which if ftrictly taken, that is, for the finishing thereof, and not only for the beginning; for an artificial or natural day, and not one of Daniels weeks, that is, seven whole years; surely their hands were very heavy that wasted thirteen years in the private house of Satomon: It may be wondred how forty years were spent in the erection of the Temple of ferufalem, and no less than an hundred in that famous one Certainly it was the greatest Architecture of one day, fince of Epbe [us. that great one of fix; an Art quite loft with our Mechanicks, a work not to be made out, but like the wals of Thebes, and fuch an Artificer as Am. phion.

The Syraculia or King Hieof what Bulk.

8. It had been a fight only second unto the Ark to have beheld the great Syracufia, or mighty thip of Hiero, described in Athenaus; and some have thought it a very large one, wherein were to be found ten stables for horses, eight Towers, besides Fish-ponds, Gardens, Tricliniums, and many fair rooms paved with Agath, and precious Stones. But nothing was impossible unto Archimedes, the learned Contriver thereof; nor shall we question his removing the earth, when he finds an immoveable base to

place his Engine upon it.

9. That the Pamphilian Sea gave way unto Alexander in his intended March toward Perfia, many have been apt to credit, and Tofephus is willing to believe, to countenance the passage of the Ifraelites through the Red Sea. But Strabo who writ before him delivereth another account; that the Mountain Climax adjoyning to the Pamphilian Sea, leaves a narrow passage between the Sea and it, which pasfage at an ebb and quiet Sea all men take; but Alexander coming in the Winter, and eagerly pursuing his affairs, would not wait for the reflux or return of the Sea; and so was fain to pass with his Army in the water, and march up to the navel in it.

10. The relation of Plutarch of a youth Sparta, that suffered a Fox concealed under his robe to tear out his bowels, before he would either by voice or countenance betray his theft; and the other of the Spartan Lad, that with the same resolution suffered a coal from the Altar to burn his arm, although defended by the Author that writes his life, is I perceive mistrusted by men of Judgment, and the Author with an aiunt, is mide to falve himfelf. Affuredly it was a noble Nation that could afford an hint to fuch inventions of patience, and upon whom, if not such verities, at least such

A Lift of fome hiftorical Errata's in this and the following Scctions.

verifimilities of forcitude were placed. Were the thory true, they would have made the only Ditciples for Zeno, and the Stoicks, and might perhaps

have been perswaded to laugh in Phaleris his Bull.

II. If any man shall content his belief with the speech of Balaams Als, without a belief of that of Mahomets Camel, or Livies Ox : It any man make a doubt of Giges ring in Justinus, or conceives he must be a jew that believes the Sabbacical river in Josephus. If any man will fay he doth not apprehend how the the tayl of an African Weather out-weigheth the body of a good Calf, that is, an hundred pound, according unto Lee Africanus, or desires before belief, to behold such a creature as is the Ruck in Paulus Venetus, for my part I shall not be angry with his incredulity.

12. If any one shall receive as stretcht or fabulous accounts what is delivered of Cocles, Scavola and Curtius, the sphere of Archimedes, the story of the Amazons, the taking of the City of Babylon, not known to Farlalloni some therein three days after ; that the nation was deaf which dwelt at the Hifforici. fall of Nilus, the laughing and weeping humour of Heraclicus and Demoeritus, with many more, he shall not want some reason and the autho-

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13. If any man doubt of the strange Antiquities delivered by Historians, as of the wonderful corps of Antaus untombed a thousand years after his death by Sertorius. Whether there were no deceit in those fragments of the Ark so common to be seen in the days of Berofus; whether the Pillar which Josephus beheld long ago, Terinllian long after, and Bartholomeus de Saligniaco, and Forchardus long fince, be the same with that of Lots wife; whether this were the hand of Paul, or that which is commonly shewn the head of Peter, if any doubt, I shall not much dispute with their suspicions. If any man shall not believe the Turpentine Tree, betwirt Ferusalem and Betblem, under which the Virgin suckled our Saviour, as the passed between those Cities; or the fig-ree of Bethany shewed to this day, whereon Zacheus ascended to behold our Saviour ; To compel I cannot tell how to enforce his belief, nor do I think it requilite to attempt Religion. it. For, as it is no reasonable proceeding to compel a religion, or think somewhat to enforce our own belief upon another, who cannot without the concurrence of Gods spirit, have any indubitable evidence of things that are ob-So is it also in matters of common belief; whereunto neither can we indubitably affent, without the co-operation of our fense or reason, wherein consists the principles of perswasior. For, as the habit of Faith in Divinity is an Argument of things unseen, and a stable affent unto things inevident, upon authority of the Divine Revealer: So the belief of man which depends upon humane testimony, is but a staggering affent unto the affirmative, not without some fear of the negative. And as there is required the Word of God, or infused inclination unto the one, so must the actual sensation of our senses, at least the non-opposition of our reasons procure our affent and acquiescence in the other. So when Eusebins an holy Writer affirmeth, there grew a strange and unknown plant near the

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flature of Christ's elected by his Hamorrhoical patient in the Gospel, which attaining unto the hem of his vesture, acquired a sudden faculty to cure all diseases. Although he saith he saw the statue in his days, yet hath it not found in many men so much as humane belief? Some believing, others opinioning, a third suspective it might be otherwise. For indeed, in matters of belief the understanding affenting unto the relation, either for the authority of the person, or the probability of the object, although there may be a considence of the one, yet if there be not a satisfaction in the other, there will arise suspensions; nor can we properly believe until some argument of reason, or of our proper sense convince or determine our dubitations.

And thus it is also in matters of certain and experimented truth: for if unto one that never heard thereof, a man should undertake to perswade the affections of the Load-stone, or that Jet and Amber attracteth straws and light bodies, there would be little Rhetorick in the authority of Aristotle, Pliny, or any other. Thus although it be true that the string of a Lute or Viol will stir upon the stroak of an Unison or Diapazon in another of the same kind; that Alcanna being green, will suddenly infect the nails and other parts with a durable red; that a Candle out of a Musket will pierce through an Inch-board, or an urinal force a nail through a Plank; yet can few or none believe thus much without a visible experiment. Which notwithstanding sals out more happily for knowledge; for these relations leaving unsatisfaction in the Hearers, do stir up ingenuous dubiosities unto experiment, and by an exploration of all, prevent delusion in any.

CHAP. XIX.

Of some Relations whose truth we fear.

Aftly, As there are many Relations whereto we cannot affent, and make some doubt thereof, so there are divers others whose verities we

tear, and heartily with there were no truth therein.

I. It is an unsufferable affront unto filial piety, and a deep discouragement unto the expectation of all aged Parents, who shall but read the story of that barbarous Queen; who after she had be held her royall Parents ruin, lay yet in the arms of his affassine, and carowsed with him in the skull of her father. For my part, I should have doubted the operation of antimony, where such a potion would not work; 'twas an act me thinks beyond Anthropophagy, and a cup sit to be served up only at the Table of Atreus.

2. While we laugh at the story of Pygmaleon, and receive as a fable that

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that he fell in love with a statue; we cannot but fear it may be true, what is delivered by Herodotus concerning Egyptian Pollinctors, or such as annointed the dead; that some thereof were found in the act of carnality with them. Form wits that fay 'tis more then incontinency for Hylas to foort with Hecuba, and youth to flame in the frezen embraces of age, we require a name for this: wherein Petronius or Martial cannot relieve us. Who tied The tyrannie of Mezentins did never equall the viciofity of this Incubus, dead and livthat could embrace corruption, and make a Mistress of the grave; that ing bodies could not relift the dead provocations of beauty, whose quick invitements together. fearce excuse submiffion. Surely, if such depravities there be yet alive, deformity need not despair; nor will the eldest hopes be ever superannuated. fince death hath spurs, and carcastes have been courted;

3. I am heartily forry, and with it were not true, what to the diffionour of Christianity is affirmed of the Italian; who after he had inveigled his enemy to disclaim his faith for the redemption of his life, did presently poyniard him, to prevent repentance, and affure his eternal death. The villany of this Christian exceeded the persecution of Heathens, whose malice was never fo Longimmous as to reach the foul of their enemies; or Long-handed, to extend unto the exile of their Elysiums. And though the blindness of some ferities have savaged on the bodies of the dead, and been so injurious unto worms, as to difenter the bodies of the deceased a yet had they therein no defign upon the foul; and have been fo far from the destruction of that, or desires of a perpetual death, that for the satisfaction of their revenge they witht them many fouls, and were it in their power would have reduced them unto life again. It is a great depravity in our natures. and furely an affection that fomewhat savoureth of hell, to defire the fociety, or comfort our felves in the fellowship of others that fuffer with us : but to procure the mileries of others in those extremities, wherein we hold an hope to have no fociety our selves, is me thinks a Arain above Lucifer. and a project beyond the primary seduction of hell.

4. I hope it is not true, and some indeed have probably denied, what is recorded of the Monk that poyloned Henry the Emperour, in a draught of the holy Eucharift. Twas a scandalous wound unto Christian Religion. and I hope all Pagans will forgive it, when they shall read that a Christian was poyfoned in a cup of Christ, and received his bane in a draught of his falvation. Had he beleived Transubstantiation, he would have doubted the effect; and fure'y the lin it felf received an aggravation in that opinion. It much commended the innocency of our forefachers, and the simplicity of those times, whose Laws could never dream so high a crime as parricide: whereas this at the least may feem to out-reach that fict, and to exceed the regular distinctions of murder. I will not say. what fin it was to act it; yet may it feem a kind of mertyrdom to fuffer by it. For, although unknowingly, he died for Christ his sake, and lost his life in the ordained reflimming of his death. Certainly, had they

known.

known it, force noble zeales would fearcely have refuted it; rather adventuring their own death, then refufing the memorial of his.

Flujus forinæ multa in historia horribili.

Many other accounts like these we meet sometimes in history, scandalous unto Christianity, and even unto humanity; whose verities not only, but whose relations honest minds do deprecate. For of sins heteroclital. and fuch as want either name or prefident, there is oft times a fin even in their histories. We delire no records of fuch enormities; fins thould be accounted new, that so they may be esteemed monstrous. They omit of monstrofity as they fall from their rarity; for, men count it veniall to err with their forefathers, and foolifhly conceive they divide a fin in its fociety. The pens of men may sufficiently expatiate without these singularities of villany; For, as they encreale the hatred of vice in some, so do they enlarge the theory of wickedness in all. And this is one thing that may make latter ages worse then were the former; For, the vicious examples of Ages paft, poylon the curiofity of these present, affording a hint of sin unto feduceable spirits, and soliciting those unto the imitation of them, whose heads were never so perversly principled as to invent them. In this kind we commend the wildom and goodness of Galen, who would not leave unto the world too subtile a Theory of poilons; unarming thereby the malice of venemous spirits, whose ignorance must be contented which Sublimate and Arfeneck. For, furely there are subtiler venenations, such as will invisibly destroy, and like the Basilisks of heaven. In things of this nature filence commendeth history: 'tis the veniable part of things loft; wherein there must never rise a Pancirollus, nor remain any Register but that of hell.

Who wit De Intiquit deperdition, or of inventions lost

And yet, if as some Stoicks opinion, and Seneca himself disputeth, these unruly affections that make us sin such prodigies, and even sins themselves be animals; there is an history of Africa and story of Snakes in these. And if the transanimation of Pythageras or method thereof were true, that the souls of men transmigrated into species answering their former natures: some men must surely live over many Serpents, and cannot escape that very brood whose fire Satan entered. And though the objection of Plate should take place, that bodies subjected unto corruption, must fail at last before the period of all things, and growing sewer in number, must leave some souls apart unto themselves; the spirits of many long before that time will find but naked habitations: and meeting no affimilables wherein to react their natures, must certainly anticipate such natural desolations.

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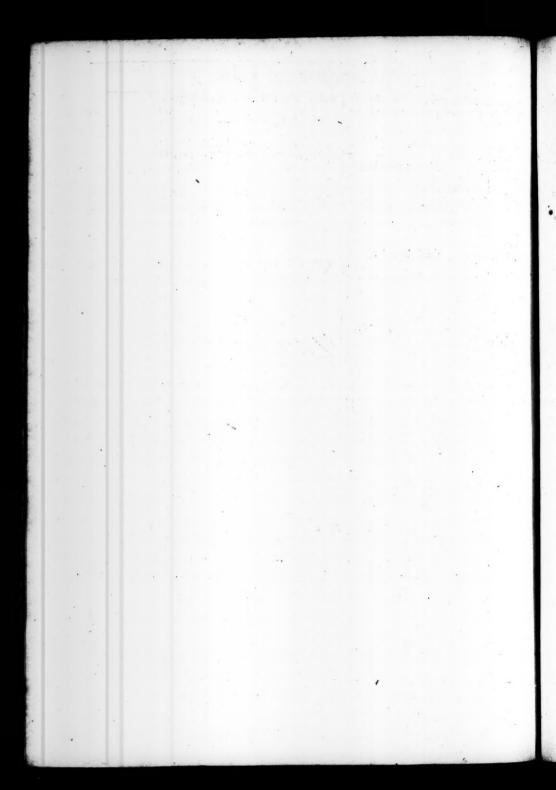
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RELIGIO MEDICI.

The feventh Edition, Corrected and Amended.

WITH

ANNOTATIONS

Upon all the obscure passages

therein.

ALSO

OBSERVATIONS

BY

Sir KENELM DIGBY.

LONDON,

Printed for Andrew Crook, 1672.

RELIGIO

Terre A.

A Letter sent upon the Information of Animadversions to come forth, upon the impersest and surreptitions Copy of Religio Medici, whilst this true one was going to Press.

Honourable Sir,

Ive your servant, who hath ever honour'd you, leave to take notice of a book at present in the Press, intuled (as I am informed) Animadversions upon a Treatise lately printed under the name of Religio

Medici; hereof, I am advertised, you have descended to be the Author. Worthy Sir, permit your Servant to affirm there is contain'd therein nothing that can deserve the Reason of your contradictions, much less the candor of your Animadversions; and to certifie the truth thereof, that book (whereof I do acknowledg my felf the Author) was penn'd many years past, and (what cannot escape your apprehension) with no intention for the Press, or the least desire to oblige the Faith of any man to its affertions. But what hath more especially emboldned my Pen unto you at present, is, that the same Piece, contrived in my private study, and as an exercise unto my felf, rather than exercitation for any other, having past from my hand under a broken and imperfect copy, by frequent transcription it still run forward into corruption, and after the addition of some things, omission of others, and transposition of many, without my affent or privacy, the liberty of these times committed it unto the Press whence it issued so disguised, the Author without distinction could not acknowledg it. Having thus miscarried, within a few weeks I shall, God willing, deliver unto the Press the true and intended Original (whereof in the mean time your worthy felfmay command a view) otherwise when ever that Copy shall be extant, it will most clearly appear how far the Text hath been mistaken, and all Observations, Glosses, or Exercitations thereon, will in a great part impugne the Printer or Transcriber, rather than the Author. If after that, you shall esteem it worth your vacant hours to discourse thereon you shall but take that liberty which I assume my self, that is, freely to abound in your fense, as I have done in my own. However ye shall determine, you shall sufficiently honour me in the Vouchsafe of your refute, and I oblige the whole world in the occasion of your Pen.

Norwich, March. 3. 1642. Your Servant,

Peedily upon the Receipt of your Letter of the third Current I fent to find out the Printer that Mr. Crook Twho delivered me yours) told me was printing something under my name, concerning your Treatise of Religio Medici, and to forbid him any further proceeding therein; but my servant could not meet with him; whereupon I have left with Mr. Grook a Note to that purpose, entreating him to deliver it to the Printer. I verily believe there is some mistake in the information given you, and that what is printing must be from some other Pen. than mine; for such Reflexions as I made upon your learn'd and ingenious discourse, are so far from meriting the Press, as they can tempt no body to a serious reading of them; they were Notes hastily fet down, as I suddenly ran over your excellent Piece, which is of so weighty a subject, and so strongly penned. as requireth much time, and sharp attention but to comprehend it; whereas what I writ was the imployment but of one sitting; and there was not twenty four hours between my receiving my Lord of Dorset's Letter that occasioned what I said, and the finishing my Answer to him; and yet part of that time was taken up in procuring your book, which he defired me to read, and give bim an account of, for till then I was so unhappy-as never to have heard of that worthy discourse. If that letter ever come to your view, you will fee the high value I fet upon your great parts: and if it should be thought I have been so mething too bold in differing from your fense, Ihope I shall easily obtain pardon, when it shall be considered, that his Lordship assigned it me as an Exercitation to oppose in it for entertainment, such passages as I might judg capable thereof; wherein what liberty I took, is to be attributed to the security of a private letter, and to my not knowing (nor my Lords) the person whom it concerned.

But Sir, now that I am so happy as to have that knowledg, I dare affure you, that nothing shall ever if he from me, but savouring of all honour, esteem, and reverence both to your self, and that worthy production of yours. If I had the vanity to give my

learned a man as you are, yet I know right well. I am no ways able to do it; it would be a very unequal progress: I pretend not to learning; those slender notions I have, are but disjoynted pieces I have by chance gleaned up here and there: To encounter such a sinewy Opposite, or make Animadversions upon so smart a Piece as yours is, requireth such a solid stock and exercise in school-learning. My superficial besprinkling will serve only for a private letter, or afamiliar discourse with Lady-auditors. With longing I expect the coming abroad of the true Copy of that Book, whose false and stoln one hath already given me so much delight. And so assuring you I shall deem it a great good fortune to deserve your favour and friendship, Ikissyour band and rest,

Winchester House, Your most humble
March 20, 1642.

Servant,

oreslam non that I sider i bas island awo cid to considered and relative each data returned Kenelm. Digby

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4936,141

L.

To such as have, or shall peruse the Observations upon a former corrupt Copy of this Book.

Here are some men that Polititian speaks of, Cui quam recta manus, tam fuit & facilis: and it feems the Author to the Observations of this Book would arrogate as much to himself, for they were by his own confession, but the conceptions of one night; a hasty birth; and so it proves: for what is really controllable, he generally omitteth; and what is false upon the error of the Copy, he doth not always take notice of; and wherein he would contradict, he mistaketh, or traduceth the intention, and (befides a parenthefis sometimes upon the Author) only medleth with those points from whence he takes an hint to deliver his prepared conceptions. But the groß of his Book is made out by discourses collateral, and digressions of his own, not at all emergent from this discourse; which is easily perceptible unto the intelligent Reader. Thus much I thought good to let thee understand without the Authors knowledge, who flighting the refute, hath inforcedly published (as a sufficient confutation) his own Book: and in this I shall not make so bold with him, as the Observator hath done with that noble Knight, whose name he hath wrongfully prefixed, as I am informed, to flight Animadversions: but I leave him to repentance, and thee to thy satisfaction.

Faremel.

Yours, A. B.

TO THE

READER

Ertainly that man were greedy of life, who should defire to live when all the world were at an end; and he must needs be very impatient, who would repine at death in the society of all things that suffer under it. Had not almost every man suffered by the Press, or were not the tyranny thereof become universal, I had not wanted reason for complaint: but in times wherein I have lived to behold the highest perversion of that excellent invention, the Name of his Majesty defamed, the honour of Parliament depraved, the Writings of both depravedly, anticipatively, counterfeitly imprinted; complaints may seem ridiculous in private persons; and men of my condition may be as incapable of affronts, as hopeful of their reparations. And truly had not the duty I owe unto the importunity of friends, and the allegiance Imust ever acknowledge unto truth, prevailed with me; the inactivity of my disposition might have made these sufferings continual, and time that brings other things to light, should have satisfied me in the remedy of its oblivion. But because things evidently false are not only printed, but many things of truth most falsly set forth; in this latter I could not but think my self ingaged: for though we have no power to redress the former, yet in the other reparation being within our selves, I have at present represented unto the world a full and intended Copy of that Piece, which was most imperfectly and surreptitiously published before.

This I confess, about seven years past, with some others of affinity thereto, for my private exercise and satisfaction, I had at leisurable hours composed; which being communicated unto one, it became common unto many, and was by transcription successively corrupted, until it arrived in a more depraved Copy at the Press. He that shall peruse that Work, and shall take notice of sundry particulars and personal expressions therein, will easily discern the intention was not publick; and being a private exercise directed to myself, what is delivered therein, was ra-

hopoles

To the Reader.

ther a memorial unto me, than an example or rule unto any other: and therefore if there be any singularity therein correspondent unto the private conceptions of any man, it doth not advantage them; or if diffentaneous thereunto, it no way overthrows them. It was penned in such a place, and with such advantage, that (I protest) from the first setting of penunto paper, I had not the affistance of any good Book, whereby to promote my invention, or relieve my memory; and therefore there might be many relapreal lapfy fes therein, which others might take notice of, and more that I Suspected my self. It was set down many years past, and was the sense of my conception at that time, not an immutable law unto my advancing judgment at all times; and therefore there might be many things therein plansible unto my passed apprehension. which are not agreeable unto my present self. Therefore are many things delevered Rhetorically, many expressions therein meerly Tropical, and as they best illustrate my intention; and therefore also there are many things to be taken in a soft and flexible sense, and not to be called unto the rigid test of Reason. Lastly, all that is contained therein, is in submission unto maturer discernments; and as I have declared, shall no further father them than the best and learned judgments shall authorize them: under favour of which considerations, I have made its fecrocy publick, and committed the truth thereof to every ingenuous Reader.

Tho. Browner

this is a few meant one of the interest of the

inity thereto, for my private energy and languitron, I had at Operade bears composed, which bear comparisoned amount I became common uniormans, seed was be transcribtion (received

nudes bertilinare and socion el expressiones durants politica.

LLE est being a processor our politica.

Traffic directed to myself, what is delicered therein were



RELIGIO MEDICI.

Or my Religion, though there be several circumstances Se7. 1. that might perswade the World I have none at all, as the general scandal of my Profession, ithe natural course of my Studies, the indifferency of my Behaviour and Discourse in matters of Religion, neither violently Defending one nor with that common ardour and con-

tention Opposing another; yet in despight hereof I dare, without usurpation, affume the honourable stile of a Christian: Not that I meerly owe this Title to the Font, my Education, or Clime wherein I was born, as being bred up either to confirm those Principles my Parents instilled into my unwary understanding, or by a general consent proceed in the Religion of my Country: But having, in my riper years and confirmed judgment, seen and examined all, I find my self obliged by the Principles of Grace, and the Law of mine own Reason, to embrace no other name but this : Neither doth herein my zeal fo far make me forget the general charity I owe unto humanity, as rather to hate than pity Turks, Infidels, and (what is worse) fems ; rather contenting my felf to enjoy that happy stile, than maligning those who refuse so glorious a Title.

But because the name of a Christian is become too general to ex- Sed. 25 press our Faith, there being a Geography of Religion as well as Lands, and every Clime diffinguished not only by their Laws and Limits, but circumscribed by their Doctrines and Rules of Faith; to be particular, I am of that reformed new cast Religion, wherein I diffike nothing but the name; of the same beleif our Saviour taught, the Apostles diffeminated, the Fathers authorized, and the Martyrs confirmed; but by the finisher ends of Princes, the ambition and avarice of Prelates, and the fatal corruption of times, so decayed, impaired, and fallen from its native beauty, that it required the careful and charitable hands of these times to restore it to its primitive integrity. Now the accidental occasion whereupon, the slender means whereby, the low and abject condition of the person by whom so good

a work was fet on foot, which in our Adversaries beget contempt and fcorn fills me with wonder, and is the very same objection the infolent

Yet have I not so shaken hands with those desperate Resolutions, who

Pagans first cast at Christ and his Disciples.

Sid. 3.

had rather venture at large their decayed bottome, then bring her in to be new trimm'd in the Dock; who had rather promiseuously retain all, then abridge any, and obstinately be what they are, then what they have been, as to fland in diameter and swords point with them: We have reformed from them, not against them; for omitting those improperations, and terms of scurrility betwixt us, which onely difference our affections, and not our cause, there is between us one common name and appellation, one faith and neceffiry body of principles common to us both; and therefore I am not scrupulous to converse and live with them, to enter their Churches in defect of ours, and either pray with them, or for them: I could never perceive any rational confequence from those many Texts which prohibit the Children of Israel to pollute themselves with the Temples of the Heathens; we being all Christians, and not divided by such detested impieties as might prophane our Prayers, or the place wherein we make them; or that a resolved Conscience may not adore her Creator any where, especially in places devoted to his service; where if their Devotions offend him, mine may please him; if theirs prophane it, mine may hallow it: Holy-water and Crucifix (dangerous to the common people) deceive not my judgment, nor abuse my devotion at all: I am, I confess, naturally inclined to that, which mifguided zeal terms superstition: my common conversation I do acknowledge auftere, my behaviour full of rigour, sometimes not without morolity; yet at my Devotion I love to use the civility of my knee, my hat, and hand, with all those outward and fentible motions which may express or promote my invitible Devotion. I should violate my own arm rather than a Church, nor willingly deface the name of Saint or Mirtyr. At the fight Bell that tolls of a Cross of Crucifix I can dispense with my hat, but scarce with the thought or memory of my Saviour: I cannot laugh at, but rather pity the fruitless journeys of Pilgrims, or contemn the misera. ble condition of Fryars; for though misplaced in circumstances, there robreof, every is something in it of Devotion. I could never hear the * Ave-Mary Bell without an elevation, or think it a fush zient warrant, because they erred in one circumstance, for me to err in all, that is, in silence and dumb contempt; whilft therefore they direct their Devotions to beinder bimblif Her, I offered mine to God, and rectifie the Errors of their Pray. to his ir yer, ers, by rightly ordering mine own: At a folemn Procession I have wept abundantly, while my conforts blind with opposition and predired to the judice, have fallen into an excess of fcorn and laughter : There

every day at fix and invelve of the Clock; at the bearing one in what place fuever, either of brife or Breet . mobich is

Virgin.

* A Church

are questionless both in Greek, Roman, and African Churches, Solemnities and Ceremonies, whereof the wifer Zeals do make a Christian use, and stand condemned by us, not as evil in themselves, but as allurements and baits of superstition to those vulgar heads that look afquint on the face of truth, and those unstable judgments that cannot confift in the narrow point and centre of vertue without a reel

or stagger to the circumference.

As there were many Reformers, so likewise many Reformations; Sell. 4. every Country proceeding in a particular way and method, according as their national Interest, together with their Constitution and Clime inclined them; fome angrily, and with extremity, others calmly, and with mediocrity, not rending but eafily dividing the community, and leaving an honest possibility of a reconciliation; which though peaceable Spirits do defire, and may conceive that revolution of time and the mercies of God may effect, yet that judgment that shall consider the present antipathies between the two extreams, their contraricties in condition, affection and opinion, may with the same hopes expect an union in the Poles of Heaven.

But to difference my felf nearer, and draw into a leffer Circle : Sea. 5 There is no Church, whose every part so squares unto my Conscience; whose Articles, Constitutions, and Customs, seem so consonant unto reason, and as it were framed to my particular Devotion, as this whereof I hold my Belief, the Church of England, to whose Faith I am a sworn Subject; and therefore in a double Obligati. on subscribe unto her Articles, and endeavour to observe her Constitutions: whatsoever is beyond, as points indifferent, I obferve according to the rules of my private reason, or the humour and fashion of my D votion; neither believing this, because Luther affirmed it, or disproving that, because Calvin hath disavouched it. I condemn not all things in the Council of Treat, nor approve all in the Synod of Dort. In brief, where the Scripture is filent, the Church is my Text; where that speaks, 'tis but my

the rules of my Religion from Rome or Geneva, but the dictates of my own reason. It is an unjust scandal of our adversaries, and a gross errour in our selves, to compute the Nativity of our Religion from Henry the Eighth, who though he rejected the Pope, reful d nottke faith of Rome, and effected no more than what his own Predecessors defined and affayed in Ages past, and was conceived the State of Venice would have attempted in our dayes. It is as uncharitable a point in us tofall upon those popular scurrilities and opprebrious scotts of the B shop of

Comment: where there is a joynt filence of both, I borrow not

Rome, to whom as temporal Prince, we owe the dutie of good langu ge: I confess there is a cause of passion between us; by his feutence 1 stand

stand excommunicated, Heretick is the best language he affords me; yet can no ear witnes, I ever returned him the name of Antichrist, Man of sin, or Whore of Babilon. It is the method of Charity to suffer without reaction: Those usual Satyrs and invectives of the Pulpit may perchance produce a good effect on the vulgar, whose ears are opener to Rhetorick than Logick; yet do they in no wise confirm the faith of wiser Believers, who know that a good cause needs not to be pardon'd by passion, but can suffain it self upon a tem-

perate dispute.

Set. 6

I could never divide my felf from any man upon the difference of an opinion, or beaugry with his judgment for not agreeing with me in that, from which within a few dayes I should diffent my felf. I have no Genius to disputes in Religion, and have oftenthought it wisdome to decline them, especially upon a disadvan tage, or when the cause of truth might suffer in the weakness of my patronage : Where we defire to be informed, 'tis good to contest with men above our selves; but to confirm and establish our opinions, 'tis best to argue with judgments below our own, that the frequent spoils and victories over their reasons, may settle in our felves an efteem and confirmed Opinion of our own. Every man is not a proper Champion for Truth, nor fit to take up the Gauntlet in the cause of Verity: Many from the ignorance of these Maximes, and an inconfiderate Zeal unto Truth, have roo rashly charged the Troops of Error, and remain as Trophies unto the enemies of Truth; A min may be in as just possession of Truth as of a City, and yet be forced to furrender; 'tis therefore far better to enjoy her with peace, then to hazzard her on a battle: if therefore there rife any doubts in my way, I do forget them, or at least defer them, till my better setled judgement, and more manly reason be able to resolve them, for I perceive every mans own reason is his best Oepidus, and will upon a reasonable truce, find a way to loose those bonds wherewith the subtleties of error have enchained our more flexible and tender judgements. In Pailofophy, where truth feems double-fac'd, there is no man more Paradoxical than my felf; but in Divinity I love to keep the Road; and though not in an implicite, yet an humble faith, follow the great wheel of the Church, by which I move, not referving any proper Poles or motion from the Epicycle of my own brain; by this means I have no gap for Herefie, Schismes, or Errors of which at present I hope I shall not injure Truth to fay I have no taint or tincture : I must confess my greener studies have been polluted with two or three, not any begotten in the latter Centuries, but old and obsolete, such as could never have been revived, but by such extravagant and irregular heads as mine; for indeed Herefies perish not with their Authors, but like the River Arca Arethusa, though they lose their currents in one place, they rise up again in another: One general Council is not able to exterpate b A revolution one single Heresie; it may be cancell'd for the preent, of certain but revolution of time, and the like aspects from Heaven, will busined years restore it, when it will flourish till it be condemned again. For as things sould though there were Metempsuchosis, and the soul of one man pass return unto sed into anothe r; Opinions do find after certain Revolutions, men thair former and minds like those that first begat them. To see our selves again, we estate, and he need not look for b Plato's year: every man is not only himself; seam in his there hath been many Diogenes, and as many Timons, though but school as sew of that name; men are liv'd over again, the world is now as when he delitives in Ages pass; there was none then, but there hath been veredthis some one tince that Parallels him, and as it were his revived Opinion. self.

Now the first of mine was that of the Arabians, that the fouls of Sect. 7. men perished with their bodies, but should yet be-raised again at the last day: not that I did absolutely conceive a mortality of the foul; but if that were, which faith, not Philosophy hath yet throughly disproved, and that both entred the grave together, yet I held the fame conceit thereof that we all do for the body, that it rife sgain. Surely it is but the merits of our unw orthy Natures, if we fleep in darkness until the last Alarm . A serious reflex upon my own unworthiness did make me backward from challenging this prerogative of my foul; fo that I might enjoy my Saviour at the last, I could with patience be nothing almost unto eternity. The second was that of Origen, that God would not perfift in his vengeance for ever, but after a definite time of his wrath, he would release the damned fouls from torture which error I fell into upon a ferious contemplation of the great Attribute of God, his Mercy; and did a little cherish it in my self, because I sonnd therein no malice, and a ready weight to fway me from the other extream of despair, whereungo melancholy and contemplative natures are too easily dispofed. A third there is which I did never positively maintain or practife. but have often wished it had been consonant to Truth, and not offen five to my Religion, and that is the Prayer for the dead; whereunto I was inclin'd from some charitable inducements, whereby I could scarce contain myPrayers for a friend at the ringing of a Bell, or behold his Corps without an Orison for his Soul : 'Twas a good way me. thought to be remembred by posterity, and far more noble than an History. These Opinions I never maintained with pertinacy, or endeavoured to enveagle any mans belief unto mine, nor so much as ever evealed or disputed them with my dearest friends; by which means I neither propagated them in others, nor confirmed them in my felf; but fuffering them to flame upon their own fubstance, without ade

507. 8.

addition of new fuel, they went out infenfibly of themselves: therefore these Opinions, though condemned by lawful Councels were not Herefies in me, but bare Errors, and fingle Lapfes of my un. derstanding without a joynt depravity of my will: Those have not onely depraved understandings, but diseased affections, which cannot enjoy a fingularity without an Herefie, or be the Author of an Opinion without they be of a Sect alfo; this was the villany of the first schism of Lucifer, who was not content to erre alone. but drew into his Faction many Legions of Spirits, and upon this experience he tempted onely Eve, as well understanding the communicable nature of fin, and that to deceive but one, was tacitely

and upon confequence to delude them both.

That Herelies should arise, we have the prophesie of Christ; but that old ones should be abolished, we hold no prediction. That there must be Herefies, is true, not only in our Church. but also in any mother: even in the doctrines heretical, there will be fuper-herefies; and Arians not only divided from their Church. but also among themselves: for heads that are disposed unto Schism and complexionably propense to innovation, are naturally disposed for a community; nor will be ever confined unto the order or occonomy of one body; and therefore when they seperate from others. they knit but loofely among themselves; nor contented with a general breach or dichotomy with their Church, do subdivide and mince themselves almost into Atoms. 'Tistrue, that men of fingular parts and humours have not been free from fingular opinions and conceits in all ages; retaining fomething not only befide the opinion of his own Church or any other, but also any particular Author; which notwithstanding a sober Judgment may do without offence or herefie; for there is yet, after all the Decrees of Councils, and the niceties of Schools, many things untouch'd, unimagin'd, wherein the liberty of an honest reason may play and expatiate with security, and far without the circle of an Herefie.

Sed. g.

As for those wingy Misteries in Divinity, and airy subtleties in Religion, which have unhing'd the brains of better heads, they never stretched the Pia Mater of mine; methinks there be not impossibilities enough in Religion, for an active faith; the deepest Mysteries ours contains, have not only been illustrated, but maintained by Sylogism, and the rule of Reason: I love to lose my felf in a mystery, to pursue my Reason to an O altitudo! 'Tis my folitary recreation to pose my apprehension with those involved enigma's and riddles of the Trinity, with Incarnation and Refurrection. I can answer all the Objections of Satan and my rebellious reason, with that odd resolution I learned of Tertullian, Cer-

tum

tum est fuis impossibile est. I defire to exercise my faith in the difficultest point; for to credit ordinary and visible objects, is not faith, but persyation. Some beleive the better for seeing Chris's Sepulchre; and when they have feen the Red Sea, doubt not of the Miracle. Now contrarily, I bless my felf, and am thankful that I lived not in the dayes of Miracles, that I never faw Christ nor his Disciples: I would not have been one of those Ifraelites that pass'd the red Sea, nor one of Christs patients on whom he wrought his wonders; then had my faith been thrust upon me; nor should I enjoy that greater blessing pronounced to all that believe and faw not 'Tis an eatie and necessary belief, to credit what our eye and sense hath examined: I believe he was dead and buried, and rose again; and defire to see him in his glory, rather than to contemplate him in his Cenotaphe, or Sepulchre. Nor is this much to believe; as we have reason, we owe this faith unto History: they only had the advantage of a bold and noble Faith, who lived before his coming, who upon obscure propheties and mystical Types could raise a belief, and expect apparent impossibilities.

'Tis true, there is an edge in all firm belief, and with an case Sed. 10. Metaphor we may fay the Sword of Faith; but in these obscurities I rather use it in the adjunct the Apostle gives it, a Buckler; under which I conceive a wary combatant may lye invulnerable. Since I was of understanding to know we knew nothing, my reafor hath been more pliable to the will of Faith; I am now content to understand a mystery without a rigid definition, in an easie and Platonick description. That ballegorical description of Hermes, pleaseth me beyond all the Metaphinical definitions of Divines ; bs hers ajus where I cannot fatisfie my reason, I love to humour my fancy: I centrum ubihad as live you tell me that an miest angelus hominis, est Corpus Dei, que, circum'o as Entelechia; Lux eft umbra Dei, as acius perspicui; where there is an obscurity too deep for our Reason, his good to sit down with a description, periphrasis, or adumbration; for by acquainting our reason how unable it is to display the visible and obvious effects of nature, it becomes more humble and fubmissive unto the subtleties of faith; and thus I teach my haggard and unreclaimed reason to stoop unto the luce of Faith. I believe there was already a tree whose fruit our unhappy Parents tafted, though in the fame Chapter when God forbids it, 'tis politively faid, the plants of the fields were not yet grown; for God had not caus'd it to rain upon the earth. I believe that the Serpent (if we thall literally understand it) from his proper form and figure, made his motion on his belly before the curie. I find the tryal of the Pucellage and virginity of Women, which God ordained the Jews, is very fallible. Experience and Hiltory informs me, chat

not onely many particular Women, but likewise whole Nations have escaped the curse of Childbirth, which God seems to pronounce upon the whole Sex; yet do I believe that all this is true, which indeed my Reason would perswade me to be false; and this I think is no vulgar part of Faith, to believe a thing not only above, but contrary to Reason, and against the Arguments of our

gedt. 11: proper Senfes.

In my folitary and retired imagination, (Neg: enim cum porticus, aut me lectulus accepit, desum mibi) I remember I am not alone, and therefore forget not to contemplate him and his attributes who is ever with me, especially those two mighty ones, his Wisdom and Eternity: with the one I recreate, with the other I confound my understanding: for who can speak of Eternity without a solecism, or think thereof without an Extafic? Time we may comprehend, 'tis but five dayes elder then our felves, and hath the same Horosepe with the world: but to retire fo far back as to apprehend a beginning, to give fuch an infinite start forwards as to conceive an end in an essence that we affirm hath neither the one nor the other, it puts my Reason to St. Pauls Sanctuary: my Phylosophy dares not say the Angels can do it; God hath not made a Creature that can comprehend him; 'tis a priviledge of his own nature: I am that I am, was his own definition unto Mofes; and 'twas a short one, to confound mortality, that durst question God, or ask him what he was; indeed he onely is; all others have and shall be : but in Eternity there is no distinction of Tenses; and therefore that terrible term Predestination, which hath troubled so many weak heads to conceive, and the wifest to explain, is in respect to God no prescious determination of our Estates to come, but a definitive blast of his will already fulfilled, and at the instant that he tirst decreed it; for to his Eternity which is indivisible, and all together, the last Trump is already sounded, the reprobates in the slame, and the bleffed in Abrahams bosome. St. Peter speaks modestly, when he faith, a thousand years to God are but as one day: for to speak like a Phylosopher, those continued instances of time which flow into a thou. fand years, make not to him one moment; what to us is to come, to his Eternity is present, his whole duration being but one permanent point, without Succession, Parts, Flux, or Division.

There is no attribute that adds more difficulty to the mystery of the Trinity, where, though in a relative way of Father and Son, we must deny a priority. I wonder how Aristotle could conceive the World eternal, or how he could make good two Eternities: his similitude of a Triangle, comprehended in a square, doth somewhat illustrate the Trinity of our Souls, and that the Triple Unity of God; for there is in us not three, but a Trinity of Souls, because there is in

us, if not three distinct Souls, yet differing faculties, that can, and

Sed. 12.

do

do subsist apart in different Subjects, and yet in us are thus united as to make but one Soul and substance: if one Soul were so perfect as to inform three diffinct Bodies, that were a petty Trinity : conceive, the distinct number of three, not divided nor separated by the intellect, but actually comprehended in its Unity, and that is a perfect Trinity: I have often admired the mystical way of Pythagoras, and the fecret Magick of numbers. Beware of Phylosophy, is a precept not to be received in too large a sense; for in this Mass of Nature there is a fet of things that carry in their Front, though not in Capital Letters, yet in Stenography, and short Characters, something of Divinity, which to wifer Reasons serve as Luminaries in the Abyss of Knowledge, and to judicious beliefs, as Scales and Roundles to mount the Pinacles and highest pieces of Divinity. The severe Schools shall never laugh me out of the Phylosophy of Hermes, that this visible World is but a Picture of the invisible, wherein as in a Pourtract, things are not truely, but in equivocal shapes, and as they counterfeit some real substance in that invisible Fabrick.

That other attribute wherewith I recreate my devotion, is his Wif- Sed. 13. dom, in which I am happy; and for the contemplation of this only, do not repent me that I was bred in the way of Study: The advantage I have of the vulgar, with the content and happiness I conceive therein, is an ample recompence for all my endeavours, in what part of knowledge soever. Wisdom is his most beauteous Attribute, no man can attain unto it, yet Solomon pleased God when he defired it. He is wife, because he knows all things; and he knoweth all things, because he made them all: but his greatest knowledge is in comprehending that he made not, that is, himfelf. And this is also the greateft knowledge in man. For this do I honour my own profession, and embrace the counsel even of the Devil himself: had he read such a Lecture in Paradife, as he did at * Delphos , we had better known our or a my, Nojco felves, nor had we flood in fear to know him. I know he is wife templum. in all, wonderful in what we conceive, but far more in what we comprehend not; for we behold him but afquint, upon reflex or shadow; our understanding is dimmer than Moses Eye; we are ignorant of the back parts or lower fide of his Divinity; therefore to prie into the maze of his Counsels, is not only folly in man, but prefumption even in Angels; like us, they are his Servants, not his Senators; he holds no Counfel, but that mystical one of the Trinity, wherein though there be three Persons, there is but one mind that decrees without Contradiction: nor needs he any; his actions are not begot with deliberation, his Wildom naturally knows what's biff; his intellect stands ready fraught with the Superlative and purest Idea's of goodness; consultation and election, which are two motions in us, make but one in him; his actions springing from his power,

at the first touch of his will. These are Contemplations Metaphysical': my humble speculations have another Method, and are content to trace and discover those expressions he hath lest in his Creatures, and the obvious effects of Nature; there is no danger to prosound these mysteries, no fandum sandierum in Physosophy: the world was made to be inhabited by Beasts, but studied and contemplated by Manistis the Debt of our Reason we owe unto God, and the homage we pay for not being Beasts; without this, the world is still as though it had not been, or as it was before the fixth day, when as yet there was not a Creature that could conceive, or say there was a world. The wisdom of God receives small honour from those vulgar Heads that rudely stare about, and with a grots rusticity admire his works; those highly magniste him, whose judicious inquiry into his Acts, and deliberate research into his Creatures, return the duty of a devout and learned admiration.

Therefore. Search while then wilt, and let thy reason go To ransome truth even to th' Abys below: Rally the scattered Causes; and that line Which Nature twifts, be able to untwine. It is thy Makers will, for unto none, But unto reason can be e're be known. The Devils do know thee, but those damn'd Mereors Build not thy glory, but confound thy Creatures. Teach my indeavours so thy works to read. That learning them in thee I may proceed. Give thou my reason that instructive flight. Whose weary wings may on thy bands still light. Teach me fo to foar aloft, yet ever fo. When near the Sun, to stoop again below. Thus shall my bumble Feathers fafely hover, And though neer Eirth, more than the Heavens discover. And then at last, when homeward I shall drive Rich with the Spoils of nature to my Hive. There will I fit like that industrious Flie, Buzzing thy praises, which shall never die, Till death abrupts them, and succeeding glory Bid me go on in a more lasting story.

And this is almost all wherein an humble Creature may endeavour to requite, and some way to retribute unto his Creator: for if not he that saith, Lord, Lord, but be that doth the will of his Father, shall be saved; certainly our wills must be our performances, and our intents make out our Actions; otherwise our pious labours shall find anxie-

ty in our Graves, and our best endeavours not hope, but fear a resurrection.

There is but aur first cause, and sour second causes of all things; Seff. 14. fome are without efficient, as God; others without matter, as Angels ; fome without form, as the first matter : but every Essence created or uncreated, hath its final cause, and some positive end both of its Effence and Operation; this is the cause I grope after in the works of Nature; on this hangs the providence of God: to raile so beauteous a structure, as the World and the Creatures thereof, was but his Art; but their fundry and divided operations, with their predeftinated ends, are from the Treasure of his wisdom. In the causes, nature and affiations of the Eclipses of the Sun and Moon, there is most excellent speculation; but to profound farther, and to contemplate a reason why his providence hath so disposed and ordered their motions in that valt circle, as to conjoyn and obscure each other, is a sweeter piece of Reason, and a diviner point of Philosophy; therefore sometimes, and in some things, there appears to me as much Divinity in Galen his Books De usu partium, as in Suarez Metaphysicks : Had Ariftotle been as curious in the enquiry of this cause as he was of the other, he had not left behind him an imperfect piece of Philosophy, but an absolute tract

of Divinity.

Natura nibil aget frustra, is the only indif utable Axiome in Phi - Sect. 15. losophy; there are no Grotesques in nature; not any thing framed to fill up empty Cantons, and unnecessary spaces : in the most imperfeet Creatures, and fuch as were not preserved in the Ark, but having their Seeds and Principles in the womb of Nature, are every where, where the power of the Sun is; in these is the wisdom of his hand discovered: Out of this rank Solomon chose the object of admiration; indeed what reason may not go to School to the wisdom of Bees, Ants, and Spiders? what wise hand teacheth them to do what reason cannot teach us? ruder heads stand amazed at those prodigious pieces of nature, Whales, Elephants, Dromidaries and Camels; thefe, I confess, are the Colossus and Majestick pieces of her hand: but in these narrow Engins there is more curious Mathematicks; and the civility of these little Citizens, more neatly sets forth the wisdom of Who admires not Regio Montanus his Fly beyond his Eagle, or wonders not more at the operation of two Souls in those little Bodies, than but one in the Trunk of a Cadar? I could never content my contemplation with those general peices of wonder, the Flux and Reflux of the Sea, the increase of Nile, the conversion of the Needle to the North; and have studied to match and parallel those in the more obvious and neglected pieces of Nature, which without further travel I can do in the Cosmography of my self, we carry with us the wonders we feek without us: There is all Africa and her prodigies in

us; we are that bold and adventurous piece of nature, which he that studies wisely learns in a compendium, what others labour at in a divided piece and endless volume.

Sed 16

Thus there are two Books from whence I collect my Divinity; besides that written one of God, another of his servant 'Nature, that univerfal and publick Manuscript, that lies expans'd unto the eyes of all, those that never faw him in the one, have discovered him in the other: this was the Scripture and theology of the Heathens: the natural motion of the Sun made them more admire him. than its supernatural station did the Children of Israel; the ordinary effects of nature wrought more admiration in them, than in the other all his Miracles; furely the Heathens knew better how to joyn and read these mystical Letters, than we Christians, who cast a more careless eye on these common Hyeroglyphicks, and disdain to suck Divinity from the flowers of Nature. Nor do I fo forget God as to adore the name of Nature; which I define not with the Schools, to be the principle of motion and reft, but that fireight and regular line, that fettled and contlant course the wisdome of God hath ordained the actions of his creatures, according to their feveral kinds. To make a revolution every day, is the nature of the Sun, because of that necesfary courfe which God hath ordained it, from which it cannot swerve, by a faculty from that voice which first did give it motion. Now this course of Nature God seldome alters or perverts, but like an excellent Artift hath so contrived his work, that with the selt-same instrument, without a new creation, he may effect his obscurest defigns. Thus he sweetneth the Water with a Word, preserveth the ereatures in the Ark, which the blaft of his mouth might have as eafily created; for God is like a skilful Geometrician, who when more eafily, and with one stroak of his Compass he might describe or divide a right line, had yet rather do this in a circle or longer way; according to the conflituted and fore laid principles of his Art : yet this rule of his he doth fometimes pervert, to acquaint the world with his Prerogative, left the arrogancy of our reason should queflion his power, and conclude he could not : and thus I call the effects of nature the works of God, whose hand and instrument she only is; and therefore to ascribe his actions unto her, is to devolve the honour of the principal agent, upon the instrument; which if with reason we may do, then let our hammers rise up and boast they have built our houses, and our pens receive the honour of our writing. I hold there is a general beauty in the works of God, and therefore no deformity in any kind of species of creature whatsoever: I cannot tell by what Logick we call a Toad, a Bear, or an Elephant, ugly, they being created in those outward shapes and figures which beft

best express those actions of their inward forms. And having past that general Visitation of God, who saw that all that he had made was good, that is, conformable to his will, which abhors deformity, and is the rule of order and beauty; there is no deformity but in monstrotity, wherein notwithstanding there is a kind of B auty. Nature so ingeniously contriving the irregular parts, as they become sometimes more remarkable than the principal Fabrick. To speak yet more parrowly, there was never any thing ugly or missingen, but the Chaos; wherein, notwithstanding, to speak strictly, there was no deformity, because no form, nor was it yet impregnant by the voice of God; Now nature is not at variance with Art, nor Art with Nature; they being both servants of his providence: Art is the perfection of Nature: were the world now as it was the sixth day, there were yet a Chaos: Nature hath made one world, and Art another. In brief, all things are artificial; for Nature is the Art of God.

This is the ordinary and open way of his providence, which Art and Industry have in a good part discovered, whose effects we may foretell without an Oracle: to foreshew these, is not Prophetie, but Prognoffication. There is another way full of Meanders and Labyrinths, whereof the Devil and Spirits have no exact Ephimerides, and that is a more particular and obscure method of his providence, directing the operations of individuals and lingle Efferces : this we call Fortune, that serpentine and crooked line, whereby he draws those actions his wisdome intends in a more unknown and secret way: This cryptick and involved method of his providence have I ever admired, nor can I relate the history of my life, the occurrences of my dayes, the escapes of dangers, and hits of chance, with a Bezo las Manos to Fortune, or a bare Gramercy to my good Stars: Abraham might have thought the Ram in the thicket came thither by accident; humane reason would have said, that meer chance conveyed Mofes in the Ark to the fight of Pharaobs Daughter: What a Labyrinth is there in the story of Toseph, able to convert a Stoick? Surely there are in every mans Life certain rubs, doublings and wrenches, which pass a while under the effects of chance, but at the last well examined, prove the meer hand of God 'Twas not dumb chance, that to discover nhe Fougade or Powder-plot, contrived a miscarriage in the Letter. like the Victory of 88. the better for that one occurrence which our enemies imputed to our dishonour, and the partiality of Fore tune, to wit, the tempests and contrariety of Winds. King Philip did not detract from the Nation, when he said, he sent his Armado to fight with men, and not to combate with the Winds. Where there is a manifest disproportion between the powers and

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forces of two feveral agents, upon a Maxime of reason we may promise the Victory to the Superiour; but when unexpected accidents flip in, and unthought of occurrences intervene, these must proceed from a power that owes no obedience to those Axioms: where, as in the writing upon the wall, we may behold the hand, but fee not the spring that moves it. The success of that petty Province of Holland (of which the Grand Seignour proudly faid, if they should trouble him as they did the Spaniard, he would send his men with shovels and pick-axes, and throw it into the Sea) I cannot altogether ascribe to the ingenuity and industry of the people, but the mercy of God, that hath disposed them to such a thriving Genius; and to the will of his providence, that disposeth her favour to each Country in their pre-ordinate feason. not be happy at once; for because the glory of one State depends upon the ruine of another, there is a revolution and viciflitude of their greatness, and must obey the swing of that wheel, not moved by Intelligences, but by the hand of God, whereby all Estates arise to their Zenith and Vertical points, according to their predeftimated speriods. For the lives, not only of men, but of Commonwealths, and the whole World, run not upon an Helix that still enlargeth; but on a Circle, where arriving to their Meridian, they decline in obscurity, and fall under the Horizon again.

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These must not therefore be named the effects of Fortune, but in a relative way, and as we term the works of nature : it was the ignorance of mans reason that begat this very name, and by a careless term miscalled the providence of God for there is no liberty for causes to operate in a loose and stragling way; nor any effect whatfoever, but hath its warrant from fome universal or superiour Cause. 'Tis not a ridiculous devotion to say a prayer before a game at Tables; for even in fortiligies and matters of greatest uncertainty, there is a setled and pre-ordered course of effects. It is we that are blind, not Fortune : because our Eye is too dim to discover the mystery of her effects, we foolishly paint her blind, and hood wink the providence of the Almighty. I cannot justifie that contemptible proverb, That fools only are Fortunate; or that insolent Paradox, that a wife man is out of the reach of fortune; much less those opprobrious Epithets of Poets Whore Band, and Strumpet. Tis, I confess, the common fate of men of fingular gifts of mind, to be deftitute of those of fortune; which doth not any way deject the Spirit of wifer judgements, who throughly understand the justice of this proceeding; and being inrich'd with higher donatives, cast a more careless eye on these vulgar parts of felicity. It is a most unjust ambition to defire to engross the mercies of the Almighty, not to be content with the

the goods of minde, with out a possession of those of body or fortune : and it is an error worse than heresie, to adore these complemental and circumstantial pieces of felicity, and undervalue those perfections and effential points of happiness, wherein we resemble our To wifer defires it is fatisfaction enough to deserve, though not to enjoy the favours of fortune; let providence provide for Fools: 'tis not partiality, but equity in God, who deals with us but as our natural Parents; those that are able of Body and Mind, he leaves to their deferts; to those of weaker merits he imparts a larger portion, and pieces out the defect of one, by the access of the other. Thus have we no just quarrel with Nature, for leaving us naked; or to envy the Horns, Hoofs, Skins and Furs of other Creatures, being provided with Reason, that can supply them all. We need not labour with so many Arguments to confute Judicial Astrology; for if there be a truth therein, it doth not injure Divinity : it to be born under Mercury disposeth us to be witty, under Jupiter to be wealthy; I do not owe a Knee unto these, but unto that merciful Hand that hath ordered my indifferent and uncertain nativity unto fuch benevolous Aspects. The f: that hold that all things are governed by Fortune, had not erred, had they not perfifted there: The Romans that erected a Temple to Fortune, acknowledged therein, though in a blinder way, somewhat of Divinity; for in a wife supputation all things begin and end in the There is a nearer way to Heaven than Homers Chain; an ealie Logick may conjoyn Heaven and Earth, in one Argument, and with less than a Sorites resolve all things into God. For though we christen effccts by their most sensible and nearest Causes, yet is God the true and infallible Cause of all, whose concourse though it be general, yet doth it subdivide it self into the particular Adi ns of every thing, and is that Spirit, by which each fingular Essence not olay sublists, but performs it's operation.

The bad construction, and perverse comment on these pair of see. 19. cond Causes, or visible hands of God, have perverted the Devotion of many unto Atheism; who forgetting the honest Advisors of Faith, have listened unto the conspiracy of Passion and Reason. I have therefore always endeavoured to compose those Feuds and angry Dissentions between Assection, Faith and Reason: For there is in our Soul a kind of Triumvirite, or triple Government of three Competitors, which distract the Peace of this our Common-wealth, not less than

did that other the State of Rome.

As Reason is a Rebel unto Faith, so Passion unto Reason: As the propositions of Faith seem absurd unto Reason, so the Theorems of Reason unto Passion, and both unto Reason; yet a moderate and peaceable discretion may so state and order the matter, that they may be all Kings, and yet make but one Monarchy, every one exercising his Sove-

Soveraignty and Prerogative in a due time and place, according to the restraint and limit of circumstance. There is, as in Phylosophy, so in Divinity, flurdy doubts, and boisterous Objections, wherewith the un. happiness of our knowledge too neerly acquainteth us. More of these no man hath known than my felf, which I confess I conquered, not in a martial posture, but on my Knees. For our endeavours are not onely to combat with doubts, but always to dispute with the Devil: the villany of that Spirit takes a hint of Infidelity from our Studies, and by demonstrating a naturality in one way, makes us mistrust a miracle Thus having perused the Archidoxes, and read the secret Sympathies of things, he would diffwade my belief from the miracle of the Brazen Serpent, make me conceit that Image worked by Sympathy. and was but an Egyptian trick to zure their Difeafes without a mira-Again, having feen some experiments of Bitumen, and having read far more of Naphtha, he whispered to my curiolity the fire of the Altar might be natural; and bid me mistrust a miracle in Elias, when he entrenched the Altar round with Water: for that inflamable fubstance yeilds not easily unto Water, but flames in the Arms of its Antagonist. And thus would he inveagle my belief to think the combuflion of Sodom might be natural, and that there was an Asphaltick and Bituminous nature in that Lake before the Fire of Gomorrab. I know that Manna is now plentifully gathered in Calabria; and Fosephus tells me, in his days it was as plentiful in Arabia; the Devil therefore made the quere, Where was then the miracle in the days of Moles: the Israelite saw but that in his time, the Natives of those Countries behold in ours. Thus the Devil played at Chefs with me, and yeilding a Pawn, thought to gain a Queen of me, taking advantage of my honest endeavours; and whilft I laboured to raise the structure of my Reason, he strived to undermine the edifice of my Faith.

Sect. 20.

Neither had these or any other ever such advantage of me, as to incline me to any point of Insidelity or desperate positions of Atheism; for I have been these many years of opinion there was never any. Those that held Religion was the difference of Man from Beatls, have spoken probably, and proceed upon a principle as inductive as the other. That doctrine of Epicurus, that denied the providence of God, was no Atheism, but a magnificent and high strained conceit of his Majesty, which he deemed too sublime to mind the trivial Actions of those inferiour Creatures. That fatal necessity of the Stoicks, is nothing but the immutable Law of his will. Those that heretofore denied the D-vinity of the Holy Ghost, have been condemned, but as Hereticks; and those that now deny our Saviour (though more than Hereticks) are not so much as Atheists: for though they deny two persons in the Trinity, they hold as we do, there is but one God.

That Villain and Secretary of Hell, that composed that miscreant

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piece of the three Impostors, though divided from all Religions, and was neither Jew, Turk nor Christian, was not a positive Atheist. I confess every Country hath its Michiavel, every age its Lucian, whereof common Heads must not hear, nor more advanced judgements too rashly venture on : It is the Rhetorick of Satan, and may pervert a

loofe or prejudicate belief.

I confels I have perused them all, and can discover nothing that Sed. 22. may startle a discreet belief; yet are their heads carried off with the Wind and breath of fuch motives. I remember a Doctor in Phylick of Italy, who could perfectly believe the immortality of the Soul, because Galen seemed to make a doubt thereof. With another I was familiarly acquainted in France, a Divine, and a man of fingular parts, that on the same point was so plunged and gravelled with three lines of Seneca, that all our Antidotes, drawn from both * Post mortem Scripture and Philosophy, could not expel the poyfon of his errour, nihileft ista. There are a set of Heads, that can credit the relations of Mariners, yet que Mors nibil. question the Testimonies of St. Paul; and peremptorily maintain the duum est nomia traditions of Elian or Pliny; yet in Histories of Scripture raise Queries corpori, Nec. and Objections, believing no more than they can parallel in humane patiens ani-Authors I confess there are in Scripture Stories that do exceed the ma- Totimo-Fables of Poets, and to a captious Reader found like Garagantua or rimur, nullag; Search all the Legends of times pail, and the fabulous con- Noftri. ceits of these present, & 'twill be hard to find one that deserves to carry the Buckler unto Sampson; yet is all this of an easie possibility, if we conceive a divine concourse, or an influence from the little Finger of the Almighty. It is impossible that either in the discourse of man, or in the infallible Voice of God, to the weakness of our apprehensions, there should not appear irregularities, contradictions, and antinomies: my self could shew a Ca:alogue of doubts, never yet imagined nor questioned, as I know, which are not resolved at the first hearing; not fantastick Queries or Objections of Air; for I cannot hear of Atoms in Divinity. I can read the Hillory of the Pigeon that was fent out of the Ark, and returned no more, yet not question how the found out her Mate that was left behind : That Lazarus was raised from the dead, yet not demand where in the interim his Soul awaited; or raise a Law-case, whether his Heir might lawfully detain his inheritance bequeathed unto him by his death, and he, though restored to life, have no Plea or Title unto his former possessions. Whether Eve was framed out of the left fide of Adam, I dispute not; because I stand not yet affured which is the right fide of a man; or whether there be any fuch distinction in Nature: that she was edified out of the Rib of Adam, I believe, yet raife no question who shall arise with that Rib at the Refurrection: Whether Adam was an Hermaphrodite, as the Rabbins contend upon the Letter of the Text, becaule it is contrary to reason,

there should be an Hermaphrodite, before there was a Woman; or a compolition of two Natures, before there was a second composed. Likewife, * whether the World was created in Autumn, Summer, or the Spring] because it was created in them all; for whatsoever Sign the Sun potteffeth, those four seasons are actually existent : It is the Nature of this Luminary to diffinguish the several seasons of the year, all which it makes at one time in the whole Earth, and successive in any part thereof. There are a bundle of curiofities, not only in Philosophy, but in Divinity, proposed and discussed by men of most supposed abilities, which indeed are not worthy our vacant hours, much less our serious Studies. Pieces only fit to be placed in Pantagruels Library, In Ro belais. or bound up with Tartaretus de medo Cacandi.

Sect. 2:.

These are niceties that become not those that peruse so serious a My. stery: There are others more generally questioned and called to the

Bar, yet methinks of a easie and possible truth.

Tisridiculous to put off, or down the general Flood of Noah, in that particular inundation of Dencation:] that there was a Deluge once, feems not to me fo great a Miracle, as that there is not one alwayes. | How all the kinds of Creatures, not only in their own bulks, but with a competency of food and fustenance, might be preserved in one Ark, and within the extent of three hundred Cubits, to a reafon that rightly examines it, will appear very feafible.] There is another fecret not contained in the Scripture, which is more hard to comprehend, * and put the honest Farher to the refuge of a Miracle;) and that is, not only how the distinct pieces of the World, and divided Islands should be first planted by men, but inhabited by Tigers, Parthers, and Bears. How America abounded with Beafts of prey, and noxious Animals, yet contained not in it that necessary Creature, a Horse, is very strange. By what passage those, not only Birds, but dangerous and unwelcome Beafts came over: How there be Creatures there, (which are not found in this Triple Continent;) all which must needs be strange unto us, that hold but one Ark, and that the Creatures began their progress from the Mountains of Ararat: They who to falve this would make the Deluge particular, proceed upon a principle that I can no way grant; not onely upon the negative of holy Scriptures, but of mine own Reason, whereby I can make it probable, that the World was as well peopled in the time of Noah, as in ours; and fifteen hundred years to people the World, as full a time for them, as four thousand years since have been to us. There are other affertions and common Tenents drawn from Scripture, and generally believed as Scripture, whereunto notwithstanding, I would never betray the liberty of my Reason. 'Tis Paradox to me, || that Metbusalem was the longest liv'd of all the Children of Adam] and no man will be able to prove it; when from the process of the Text, I can manifest it may be otherwise. * That Judas perished by hanging himself, there is no certainty in Scripture : though in one place it feems to affirm it, and by a doubtful word hath given occasion to translate it; yet in another place, in a more punctual description, it makes it improbable, and feems to overthrow it.] That our Fathers, after the Flood, creced the Tower of Babel, to preserve thems lives against a second Deluge, is generally opinioned and believed, yet is there another intention of theirs expressed in Scripture : Besides, it is improbable from the circumstance of the place, that is, a plain in the Land of Shi-These are no points of Faith, and therefore may admit a free There are yet others, and those familiarly conclude from the Text, wherein (under favour) I fee no confequence: The Church of Rome, confidently proves the opinion of Tutelary Angels, from that Aalwer when Peter knockt at the Door; 'Tis not be, but bis Angel; that is, might some say, his Messenger, or some body from him; for fo the Original fignifies; and is as likely to be the doubtful Families meaning. This exposition I once suggested to a young Divine, that answered upon this point; to which I remember the Franciscan Opponent replyed no more; but, That it was a new,

and no authentick interpretation.

These are but the conclusious and fallible discourses of man upon Sett 23. the Word of God, for fuch I do believe the holy Scriptures; yet were it of man, I could not chuse but say, it was the singularest, and Superlative piece that hath been extant since the Creation . were I a Pagan, I should not refrain the Lecture of it; and cannot but commend the judgement of Ptolomy, 1 that thought not his Library compleat without it. | The Alcoran of the Tucks (I speak without prejudice) is an ill composed Piece, containing in it vain and ridiculous Errors in Philosophy] impessibilities, fictions, and vanities beyond laughter, maintained by evident and open Sophisms, the Policy of Ignorance, deposition of Universities, and banishment of Learning; that hath gotten Foot by Arms and violence : This without a blow, hath diffeminated it felf through the whole Earth. It is not unremarkable what Philo first observed, That the Law of Moses continued two thousand years without the least alteration; whereas, we fee, the Liws of other Common-weals do alter with occasions; and even thoie, that pretended their Original from some Divinity, to have vanified without trace or memory. * I believe besides Zoroafter, there were divers that writ before Mofes who, not withflanding have fuffered the common fate of time. Mens Works have an age like themselves; and though they out-live their Authors, yet have they a flint and period to their duration: This onely is a work too hard for the teeth of time, and cannot perish but in the general Flames, when all things thall confess their Ath.s.

I

Sect. 24.

I have heard some with deep light lament the left lines of Cicero; others with as many groans deplore the combustion of the Library of Alexandria :] for my own part, I think there be too many in the World, and could with patience behold the urn and afnes of the Vatican, could I, with a few others, recover the perished leaves of Solomon. Il I would not omit a Copy of Enochs Pillars had they many nearer Authors than Tofephus] or did not *Pinedain bis relish fomewhat of the Fable. Some men have written more than others have Spoken: * Pineda quotes more Authors in one work. than are necessary in a whole world. * Of those three great inventions in Germany, there are two which are not without their incommodities.] 'Tis not a melancholy Utinam of my own, but the defires of better heads, that there were a general Synod; not to unite the incompatible difference of Religion, but for the benefit of learning, to reduce it as it lay at first, in a few, and folid Au. thors; and to condemn to the fire those swarms and millions of Rhapfodies begotten only to diftract and abuse the weaker judgements of Scholars, and to maintain the trade and mystery of Typographers.

Monarchia Ecclefi flica quotes one thousand and forty Authors

Sed. 25.

I cannot but wonder with what exception the Samaritans could confine their belief to the Pentateuch, or five Books of Mofes, I am ashamed at the Rabbinical Interpretation of the Jews, upon the Old Testament, as much as their desection from the New: and truely it is beyond wonder, how that contemptible and degenerate issue of Jacob, once so devoted to Ethnick Superstition, and to eafily seduced to the Idolatry of their Neighbours, should now in such an obilinate and peremptory belief adhere unto their own Doctrine, expect in possibilities, and in the face and eye of the hurch, perfitt without the least hope of Conversion: This is a vice in them, that were a vertue in us; for obstinacy in a bad cause, is but constancy in a good: And herein I must accuse those of my own Religion; for there is not any of such a fugitive Faith, such an unstable beleif, as a Christian; none that do so often transform themselves, not unto several shapes of Christianity, and of the same species, but unto more unnatural and contrary Forms of Few and Mahometan; that from the name of Saviour, can descend to the bire term of Prophet; and from an old belief that he is come, fall to a new expectation of his coming. It is the promise of Christ to make us all one Flock; but how and when this union shall be, is as obscure to me as the last day. Of those four Members of Religion we hold a slender proportion; there are I confess some new additions, yet small to those which accrew to our adversaries, and shofe only drawn from the revolt of Pagans, men but of negative Impieties, and fuch as deny Christ, but because they never

never heard of him : but the Religion of the few is exprestly against the Christian, and the Mabometan against both; for * the Turk in the bulk he now stands, is beyond all hope of conversion. if he fall asunder, there may be conceived hopes, but not with. out flrong improbabilities. The few is obstinate in all fortunes ; the perfecution of fifteen hundred years hath but confirmed them in their Error : They have already endured whatfoever may be inflicted, and have suffered, in a bad cause, even to the condemnation of their enemies. Persecution is a bad and indirect way to plant Religion; It hath been the unhappy method of angry Devotions, not only to confirm honelt Religion, but wicked Herelies, and extravagant Opinions. It was the first stone and Basis of our Faith, * none can more juftly boaft of perfecutions, and glory in the number and valour of Martyrs;] For, to f, eak properly those are true and almost only examples or fortitude; those that are fetch'd from the Field, or drawn from the actions of the Camp, are not oft times so truly precedents of valour, as audacity; and at the best attain but to some bastard-piece of fortitude : | if we shall firictly examine the circumstances and requisites which Aristotle requires to true and perfect valour, we shall find the name only in his Master Alexander, and as little in that Roman Worthy, Julius Cefar;] and if any, in that easie and active way, have done to nobly as to deserve that name, yet in the passive and more terrible piece, these have surpassed, and in a more heroical way may claim the honour of that Title. 'Tis not in the power of every honest Faith to proceed thus far, or pass to Heaven through the flames; every one hath it not in that full measure, nor in to audacious and resolute a temper, as to endure those terrible tests and tryals; who, notwithstanding, in a peaceable way do truly adore their Saviour, and have (no doubt) a faith acceptable in the eyes of God:

Now as all that dye in the War, are not termed Souldiers; fo neither can I properly term all those that suffer in matters of Reli- Sed. 26 gion, Martyrs. * The Council of Constance condemns John Huss for an Heretick; the Stories of his own party file him a Marty r THe must needs offend the Divinity of both, that sayes he was neither the one nor the other: There are many (questionless) cannonized on earth, that shall never be Saints in Heaven; and have their names in Histories and Martyrologies, who in the eyes of God are not fo perfect Martyrs as was *that wife Heathen Socrates, that fuffered on a fundamental point of Religion, the Unity of God.] * I have often pitied that milerable Bishop tha suffered in the caute of Antipodes,] yet cannot chuse but accuse him of as much madness,

for exposing his living on such a trifle; as those of ignorance and folly, that condemned him. I think my Conscience will not give me the lye, if I say there are not many extant that in a noble way fear the sace of death less than my self; yet from the moral duty I owe to the Commandment of God, and the natural respects that I tender unto the conservation of my essence and being, I would not perish upon a Cerimony, Politick points, or indifferency: nor is my belief of that untractible temper, as not to bow at their obstacles, or counive at matters wherein there are not manifest impieties: The leaven therefore and ferment of all, not only Civil, but Religious actions, is Wisdom; without which, to commit our selves to the siames, is Homicide, and (I fear) but to pass through one fire into an other.

Selt.27.

That Miracles are ceased, I can neither prove, nor absolutely deny, much lets define the time and period of their ceffation: that they survived Christ, is manifest upon the Record of Scripture; that they out-lived the Apostics also, and were revived at the conversion of Nations, many years after; we cannot deny, if we shall not question those writers whose testimonies we do not controvert, in points that make for our own opinions; therefore that may have some truth in it that is reported by the Jesuites of their Miracles in the Indies; I could wish it were true, or had any other testimony than their own Pens: they may easily believe those Miracles abroad, who daily conceive a greater at home, the transmutation of those visible elements into the body and blood of our Saviour: For the conversion of Water into Wine, which he wrought in Cana, or what the Devil would have had him done in the Wilderness, of Stones into Bread, compared to this, will scarce deferve the name of a Miracle: Though indeed, to speak properly there is not one Miracle greater than another, they being the extraordinary effects of the Hand of God, to which all things are of an equal facility; and to create the World; as case as one single Creature for this is also a Miracle, not only to produce effects against, or above nature; but before Nature; and to create nature; as great a Miracle, as to contradict or transcend her. If We do too narrowly define the Power of God, reftraining it to our capacities. * I hold that God can do all things; how he should work contradictions I do not understand, yet dare not therefore deny, Al cannot see why the Angel of God should question Esdras to recal the time past, if it were beyond his own power; or that God should pose mortality in that which he was not able to perform himfelf. I will not fay God cannot, but he will not perform many things, which we plainly affirm he cannot: this I am fure is the mannerliest proposition, tion, wherein, notwithstanding, I hold no Paradox. For strictly his power is the same with his will, and they both with all the rest do make but one God.

Therefore that Miracles have been, I do believe; that they may Sed. 28. yet be wrought by the living, I do not deny : but have no confidence in those which are fathered on the dead; and this hath ever made me suspect the esticacy of relicks, to examine the bones, question the habits and appurtenances of Saints, and even of Christ himself. I cannot conceive why the Cross that Helena found, and whereon Christ himself dyed, should have power to restore others unto life: * I excuse not Constantine from a fall off his Horse, or a mischief from his enemies, upon the wearing those nails on his bridle, which our Saviour bore upon the Cross in his hands: I compute among your Pie feaudes, nor many degrees before consecrated Swords and Roses, that which Baldwyn King of Jerusalem return'd the Genovese for their cost and pains in his Wars, to wit, the ashes of John the Baptist. Those that hold, the sanctity of their Souls doth leave behind a tincture and facred faculty on their bodies, speak na. turally of Miracles, and do not falve the doubt. Now one reason I tender so little Devotion unto Relicks is, I think, the flender and doubt's ful respect I have alwayes held unto Antiquities: for that indeed which I admire, is far before antiquity, that is, Eternity; and that is, God himself; who though he be styled the ancient of dayes, cannot receive the adjunct of Antiquity, who was before the World, and shall be after it, yet is not older than it; for in his years there is no Climacter; his duration is Eternity, and far more venerable than Antiquity.

* But above all things, I wonder how the curiofity of wifer heads Sect. 29. could pass that great and indisputable Miracle, the cessation of O. racles] and in what Iwoun their reasons lay, to content themselves, and fit down with fuch a far-fetch't and ridiculous reason as Plutarch alleadgeth for it. The Jews that can believe the supernatural Solslice of the Sun in the dayes of Joshus, have yet the impudence to deny the Eclipse, which every Pagan confessed at his death: but for this it is evident beyond all contradiction, * the Devil himselt * In his confessed it. Certainly it is not warrantable curiosity, to examine the Oracle to verity of Scripture by the Concordance of humane History, or feek ""B" !!! to confirm the Chronology of Hester or Daniel, by the authority of Magasthenes or Herodotus. I confess, I have had an unhappy curiofity this way, * till I laughed my felfout of it with a piece of Instine, where he delivers, that the Children of Israel for being scabbed were banished out of Egypt.] And truly since I have understood the occurrences of the World, and know in what counterfeiting shapes, and deceitful vizards times present represent on the stage things

past; I do believe them little more than things to come. Some have been of my opinion, and endeavoured to write the History of their own lives; wherein Moses hath ourgone them all, and left not onely the story of his life, but as some will have it, of his death also.

Sect.30.

It is a Riddle to me, how this Story of Oracles hath not worm'd out of the World that doubtful conceit of Spirits and Witches; how fo many learned Heads should so far forget their Metaphysicks, and destroy the Ladder and Scale of Creatures, as to question the existence of Spirits: for my part, * I have ever believed, and do now know, that there are Witches:] they that doubt of these, do not onely deny them, but Spirits; and are obliquely, and upon confequence a fort not of Infidels, but Atheists. Those that to confute their incredulity defire to fee Apparitions, shall questionless never behold any, nor have the power to be so much as VVitches: I the Divil hath them already in a Herefie as Capital as VVitchcraft; and to appear to them, were but to convert them. Of all the delufions where with he deceives mortality, there is not any that puzleth me more than the Legerdemain of Changelings; I do not credit those transformations of reasonable Creatures into Beafts, or that the Devil hath a power to transpeciate a Maninto a Horse, who tempted Christ (as a tryal of his Divinity) to convert stones into bread. I could believe that Spirits use with man the act of carnality, and that in both Sexes; I conceive they may affume, steal, or contrive a body, wherein there may be action enough to content decrepit Luft, or Paffion to fatisfie more active veneries; yet in both, without a possibility of generation: and therefore that opinion that Antichrift should be born of the Tribe of * Dan by conjunction with the Devil] it is ridiculous, and a conceit fitter for a Rabbin, than a Christian. I nold that the Devil doth really possess some men, the Spirit of Melancholy others, the Spirit of Delusion others; that as the Devil is concealed and denyed by fome, fo God and good Angels are pretended by others, whereof the late defection of the Maid of Germany hath left a pregnant example.

Sect. 31.

Again, I believe that all that use Sorceries, Incantations, and Spells, are not Vvitches, or as we term them, Magicians; I conceive there is a traditional Magick, not learned immediately from the Davil, but at second hand from his Scholars who having once the screet betrayed, are able and do emperically practise without his advice, they proceeding upon the principles of Nature; where actives aptly conjoyned to disposed passives, will under any Master produce their effects. Thus I think at first a great part of Philosophy was? Vvitchcrast, which being afterward derived to one another, proved but Philosophy, and was indeed no more but the honest effects of Nature: Vvnat invented by us, is Philosophy; learned from him, is Magick. Vve do surely owe the discovery of many secrets to the discovery of good and bad Angels.

Angels. I could never pass that sentence of Paracelsus, without an afterisk, or annotation ; * Ascendens constellatum multa revelat * Thereby is quærentibus magnalia naturæ, i. e. opera Dei. I do think that many meant our mysteries ascribed to our own inventions have been the courteous good Angel revelations of Spi rits; for those noble effences in Heaven bear from oue a friendly regard unto their fellow Nature on Earth; and therefore nativity. believe that those many prodigies and ominous prognosticks, which fore-run the ruines of States, Princes, and private persons, are the charitable premonitions of good Angels, which more careless enquiries term but the effects of Chance and Nature.

Now besides these particular and divided Spirits, there may be Self. (for ought I know) an universal and common Spirit to the whole World. It was the opinion of Plato, and it is yet the Hermetical Philosophers: if there be a common nature that unites and tyes the scattered and divided individuals into one species, why may there not be one that unites them all? However I am fure there is a common Spirit that playes within us, yet makes no part in us; and that is, the Spirit of God, the fire and scintillation of that noble and mighty Essence, which is the life and radical heat of Spirits, and those effences that know not the vertue of the Sun; a fire quite contrary to the fire of hell: this is that gentle heat that brooded on the waters, and in fix dayes hatched the world; this is that irradiation that dispels the mists of Hell, the Clouds of horror, fear, forrow, despair ; and preserves the region of the mind in serenity: whatsoever feels not the warm gale, and gentle ventilation of this Spirit, (though I feel his pulse) I dare not say he lives; for truely without this to me there is no heat under the Tropick; nor any light, though I dwelt in the body of the Sun.

As when the labouring Sun hath wrought his track Up to the top of lofty Cancers back. The Icy Ocean cracks, the frozen Pole Thams with the beat of the Cel ftial coal; So when thy absent beams begin t' impart Again a Solftice on my frozen beart, My winter's o're, my drooping spirits fing, And every part revives into a Spring. But if thy quickning beams a while decline, And with their light blefs not this orb of mine, A chilly frost surprifeth every member, And in the midit of June I feel December. O bow this earthly temper doth debase The noble foul, in this her humble place.

Whole

Whose wingy nature ever doth aspire
To reach that place whence sirst it took its sire.
These slames I seel, which in my beart do dwell,
Are not thy beams, but take their power from hell:
O quench them all, and let thy light divine
Be as the Sun to this poor Orb of mine;
And to thy sacred Spirit convert those sires,
Whose earthly sumes chook my devout aspires.

Sed. 33.

Therefore for Spirits, I am so far from denying their existence, that I could eafily believe, that not only whole Countries, but particular persons have their Tutelary and Guardian Angels : * It is not a new opinion of the Church of Rome, but an old one of Pythagoras and Plato;] there is no herefie in it, and if not manifeftly defin'd in Scripture, yet it is an opinion of a good and wholfome use in the course and actions of a mans life, and would serve as an Hypothesis to salve many doubte, whereof common Philosophy affordeth no folution: Now if you demand my opinion and Metaphysicks of their natures, I confess them very shallow, most of them in a negative way, like that of God; or in a comparative, between our selves and fellow creatures; for there is in this Universe a Stair, or manifest Scale of creatures, rising not disorderly, or in confusion, but with a comely method and proportion : be tween Creatures of meer existence, and things of life, there is a large disproportion of nature; between plants and animals or Creatures of fense, a wider difference; between them and Man, a far greater: and if the proportion hold one, between Man and Angels rhere should be yet a greater. We do not comprehend their natures, who retain the first definition of Porphyry, and distinguish them from our selves by immortality; for before his Fall, Man a'fo was Immortal; yet mult we needs affirm that he had a different essence from the Angels: having therefore no certain knowledge of their Nature, 'tis no bad method of the Schools, whatsoever perfection we find obscurely in our selves, in a more compleat and absolute way to ascribe unto them. I believe they have an extemporary knowledge, and upon the first motion of their reason do what we cannot with. out study or deliberation; that they know things by their forms, and define by special difference what we describe by accidents and properties; and therefore probabilities to us may be demonstrations unto them: That they have knowledge not only of the specifical, but numerical forms of individuals, and understand by what referved difference each fingle Hypostafis (besides the relation to its species) becomes its numerical felf. That as the Soul hath a power

to move the Body it informs, fo there's a faculty to move any, though inform none; ours upon restraint of time, place and distance; but that invilible hand that conveyed Habakkuk to the Lions Den, or Philip to Azotus, infringeth this rule, and hath a fecret conveyance, wherewith mortality is not acquainted: if they have that intuitive knowledge, whereby as in reflexion they behold the thoughts of one another, I cannot peremptorily deny but they know a great part of ours. They that to refute the Invocation of Saints, have denied that they have any knowledge of our affairs below, have proceeded too far, and must pardon my opinion, till I can throughly answer that peice of Scripture, At the conversion of a Sinner the Angels in Heaven rejoyce. * I cannot with those in that great Father securely interpret the work of the first day, Fiat lux, to the creation of Angels, I though (I confels) there is not any Creature that hath so near a glympse of their nature, as light in the Sun and Elements; we Rile it a bare accident, but where it subsists alone, 'tis a spiritual Substance, and may be an Angel:] in brief, conceive light invitible, and that is a Spirit.

These are certainly the Magesterical and Matter pieces of the Crea- Secti 34. tor, the Flower, or (as we may fay) the best part of nothing, actually existing, what we are but in hopes, and probability; we are onely that amphibious piece between corporal and spiritual Essence, that middle form that links these two together, and makes good the method of God and Nature, that jumps not from extreams, but unites the incompatible distances by some middle and participating natures: that we are the breath and fimilitude of God, it is indisputable and upon Record of Holy Scripture; but to call our felves a Microcosme, or little World, I thought it only a pleasant Trope of Rhetorick, till my near judgment and fecond thoughts told me there was a real truth therein: for first we are a rude Mass, and in the rank of Creatures, which onely are, and have a dull kind of being not yet priviledged with life, or preferred to sense or reason; next we live the life of Plants, the life of Animals, the life of Men, and at last the life of Spirits, running on in one mysterious Nature those five kind of Existences, which comprehend the Creatures not onely of the World, but of the Universe; thus is man that great and true Amphibium, whose nature is disposed to live not only like other Creatures in divers Elements, but in divided and diffinguished Worlds: for though there be but one to sense, there are two to reason; the one visible, the other invisible, whereof Moses seems to have left description, and of the other so obscurely, that some parts thereof are yet in controversie; and truly for the first Chapter of G. nesis, I must consess a great deal of obscurity; though Divines have to the power of humane reason endeavoured to make all go in a literal meaning, yet those allegorical interpretations are also probable, and perhaps the mystical method of Moses bred up in the Hyeroglyphical Schools of the Egyptians.

ett. 35.

Now for the immaterial World, methinks we need not wander fo far as the first moveable; for even in this material Fabrick the Spirits walk as freely exempt from the affection of time, place, and motion, as beyond the extreamel circumference: do but extract from the corpulency of Bodies, or resolve things beyond their first matter, and you discover the habitation of Angels, which if I call the ubiquitary, and omnipresent essence of God, Thope I shall not offend Divinity : for before the Creation of the World, God was really all things. For the Angels he created no new World, or determinate manfion, and therefore they are every where where is his Essence, and do live at a distance even in himself: that God made all things for man, is in some fense true, yet not so far as to subordinate the Creation of those purer Creatures unto ours, though as ministring Spirits they do, and are willing to fulfil the will of God in these lower and sublunary affairs of man: God made all things for himself, and it is impossible he should make them for any other end than his own Glory; it is all he can recrive, and all that is without himfelf : for honour being an external adju ct, and in the Honourer rather than in the Person honoured, it was necessary to make a Creature, from whom he might receive this Homage, and that is in the other V Vorld Angels, in this, Man; which when we night t, we forget the very end of our Creation, and may justly provoke God, not onely to repent that he hath made the world. but that he hath sworn he would not destroy it. That there is but one world, is a conclution of Faith. Aristotle with all his Philosophy hath not been able to prove it, and as weakly that the world was eternal, that dispute much croubled the Pen of the P hilosophers, * but Mofer decided that quetion, and all is falved with the new term of a Creation,] that is, a production of something out of nothing; and what is that? VV hattoever is opposite to something, or more exactly, that which is truely contrary unto God: for he onely is, all others have an existence with dependency, and are something but by a distin-Chion; and herein is Divinity conformant unto Pailolophy, and generation not onely founded on contrarieties, but also Creation; God being all things, is contrary unto nothing, out of which were made all things, and fo nothing became fomething, and Omneity informed Nullity into an Effence.

Sec. 36. at the ble

The whole Creation is a Mystery, and particularly that of Man; at the blast of his mouth were the rest of the Creatures made, and at his bare word they started out of nothing: but in the frame of Min (as the Text describes it) he played the sensible Operator, and seemed not so much to create, as make him; when he had separated the materials of other Creatures, there consequently resulted a form and Soul; but having raised the V Valls of man, he has driven to a second and harder Creation of a substance like himself; an incorruptible and im-

mortal Soul. For these two affections we have the Philosophy and opinion of the Heathens, the flat affirmative of Plato, and not a negative from Aristotle: there is another scruple cast in by Divinity (concerning its production) much dispated in the Germane Auditories, and with that indifferency and quality of Arguments, as leave the controversie undetermined. I am not of Paracelfus mind, that boldly delivers a receipt to make a man without Conjunction, yet cannot but wonder at the multitude of Heads that do deny traduction, having no other Argument to confirm their belief, than that Rhetorical sentence, and Antimetathefis of Augustine, Creando in funditur, infundendo creatur : either opinion will confift well enough with Religion: yet I thould ratherincline to this, did not one objection haunt me, not wrung from speculations and subtilties but from common sense, & observation; not pickt from the Leaves of any Author, but bredamongst the Weeds and Tarcsof my own Brain; And this is a conclusion from the equivocal and monstruous productions in the copulation of a Man with a Beast: for if the Soul of men be not transmitted, and transfused in the feed of the Parents, why are not those productions meerly Beasts, but have also an impression and tincture of reason in as high a measure, as it can evidence it felf in those improper Organs? Nor truly'can I peremptorily deny that the Soul in this her fublunary estate, is wholly, and in all acceptions inorganical, but that for the performance of her ordinary actions, is required not onely a symmetry and proper disposition of Organs, but a Crasis and temper correspondent to its operations, vet is not this Mass of Fiesh and visible structure the instrument and propre Corps of the Soul, but rather of Sense, and that the hand of Reason. * In our Study of Anatomy there is a Mass of mysterious Pailosophy, and fuch as reduced the very Heathens to Divinity;] yet among it all thefe rare discourses, and curious pieces I find in the Fabrick of man, I do not so much content my selt, as in that I find there is no Organ or Instrument for the rational Soul, for in the Brain, which we term the feat of Reason, there is not any thing of moment more than I can discover in the crany of a Braft: and this is a sensible, and no inconfiderable argument of the inorganity of the Soul, at least in that fenfe we usually so receive it. Thus we are men, and we know not how; there is formething in us that can be without us, and will be after us, though it is strange that it hath no History, what it was before us, nor cannot tell how it entred in us.

Now for these Walls of Flesh, wherein the Soul doth seem to be immured before the Resurrection, it is nothing but an elemental composition, and a Fabrick that must fall to Ashes: All Flesh is Grass, is not only metaphorically, but literally true; for all those Creatures we behold are but the Herbs of the Field, digested into Flesh in them, or more remotely carnified in our selves. Nay further, we are what

Sed. 37.

we all abhor, Anthropophagi and Cannibals, devourers not only of men, but of our felves; and that not in an allegory, but a politive truth: for all this Mals of Flesh which we behold, came in at our mouths; this frame we look upon, hath been upon our Trenchers; in brief, we have devour'd our selves. * I cannot believe the wisdom of Py. thagor as did ever positively, and in a literal sense, assirm his Metempsy. cosis, or impossible transmigration of the Souls of Men into Beatts: of all Metamorphofes, or Transmigrations, I believe onely one, that is of Lots Wife; for that of Nebuchadonofor proceeded not fo far; in all others I conceive there is no further verity than is contained in their implicite fense and morality. I believe that the whole frame of a Braft doth perifh, and is left in the fame ftate after death, as before it was materialled unto life; that the Souls of men know neither contrary nor corruption; that they subsist beyond the body, and outlive death by the priviledge of their proper natures, and without a Miracle; that the Souls of the faithful, as they leave Earth, take possession of Heaven: that those Apparitions and Ghosts of departed persons are not the wandring Souls of men, but the unquiet walks of Devils, prompting and suggesting us unto mischeif, blood, and vilany, instilling, and stealing into our hearts; that the bleffed Spirits are not at rest in their Graves, but wander sollicitous of the affairs of the world : but that those Phantasmes appear often, and do frequent Cometeries, Charnel-houses, and Churches, it is because those are the dormitories of the dead, where the Devil like an infolent Champion beholds with pride

the spoils and Trophies of his Victory in Adam.

This is that difmal conquelt we all deplore, that makes us so often cry (O) Adam, quid fecisti? I thank God I have not those strait ligaments, or narrow obligations to the world, as to dote on life, or be convult and tremble at the name of death : Not that I am insensible of the dread and horror thereof; or by raking into the Bowels of the deceased, continual fight of Anatomies, Skeletons, or Cadaverous reliques, like Vespilloes, or Grave-makers, I am become stupid, or have forgot the apprehention of Mortality, but that marshalling all the horrours, and contemplating the extremities thereof, I find not any thing therein able to daunt the courage of a man, much less a well And therefore am not angry at the errour of our resolved Christian. first Parents, or unwilling to bear a part of this common fate, and like the best of them to dye, that is, to cease to breathe, to take fare wel of the Elements; to be a kind of nothing for a moment, to be within one instant of a Spirit. When I take a full view and circle of my self without this reasonable moderator, and equal piece of Justice, Death, I do conceive my felf the miserablest person extant ; were there not another life that I hope for, all the vanities of this world should not intreat a moments breath from me: could the Devil work my, belief to

Scat. 38.

...

imagine I could never dye, I would not outlive that very thought. I have so abject a conceit of this common way of existence, this retaining to the Sun and elements, I cannot think this to be a man, or to live according to the dignity of humanity: in expectation of a better, I can with patience embrace this life, yet in my bett meditations do often defic death: I honour any man that contemns it, nor can I highly love any that is a fraid of it: this makes me naturally love a Souldier, and honour those tattered and contemptible Regiments, that will due at the command of a Singeant. For a Pagan there may be some motives to be in love with life; but for a Christian to be amazed at death, I see not how he can estape this Dilemma, that he is too sensible of this life, or hopeless of the life to come.

Some Divines count Adam 30. years old at his Creation, because Sea, 39. they suppose him Created in the perfect age, and stature of man and furely we are all out of the computation of our age, and every man is some months elder than he bethinks him; for we live move. have a being, and are subject to the actions of the Elements, and the malice of diseases, in that other world, the truest Microcosm, the womb of our Mother; for besides that general and common existence we are conceived to hold in our Chaos, and whilst we sleep within the bosome of our Causes, we enjoy a being and life in three distinct worlds, wherein we receive most manifest graduations. In that obscure world, and womb of our mother, our time is short, computed by the Moon; yet longer than the dayes of many creatures that behold the Sun, our felves being not yet without life. fense, and reason; though for the manifestation of its actions, it awaits the opportunity of objects, and feems to live there but in its root and foul of vegetation: entring afterwards upon the Scene of the world, we rife up and become another Creature, performing the reasonable actions of man, and obscurely manifesting that part of Divinity in us, but not in complement and perfection, till we have once more cast our secondine, that is, this slough of flesh, and are delivered into the last world, that is, that ineffable place of Paul, that proper ubi of spirits. The smattering I have of the Philosophers Stone (which is something more than the perfect exaltation of Gold) hath taught me a great deal of Divinity, and inflruded my belief, how that immortal spirit and incorruptible substance of my foul may lye obscure, and sleep a while within this house of flesh. Those strange and mystical transmigrations that I have obferved in Silkworms, turned my Philosophy into Divinity. Thereis in these works of nature, which seem to puzzle reason, something Divine, and hath more in it than the eye of a common spectator doth difcover.

Sett. 40.

I am naturally bashful; nor hath conversation, age, or travel, been able to effront, or encarden me; yet I have one part of modesty, which I have seldome discovered in another, that is, (to speak truely) I am not somuch afraid of death, as ashamed thereof; 'tis the very disgrace and ignominy of our natures, that in a moment can so disfigure us, that our nearest Freinds, Wife and Children stand afraid and start The Birds and Beafts of the Field, that before in a natural fear obeyed us, forgetting all Allegiance, begin to prey upon us. This very conceit hath in a tempest disposed and left me willing to be swal. lowed up in the Abys of waters, wherein I had perished unfeen, unpityed. without wondering Eyes, Tears of pity, Lectures of mortality, and none had faid Quantum mutatus ab ille! Not that I am ashamed of the Anatomy of my parts, or can accuse Nature for playing the bungler in any part of me or my own vitious life for contracting any shameful disease upon me. whereby I might not call my felf as wholesome a morfelf or the Worms as any.

Sect 14.

Some upon the courage of a fruitful issue, wherein as in the truest Chronicle, they seem to outlive themselves, can with greater paticince away with death. This conceit and counterfeit subsisting in our progenies, seems to me a meer fallacy, unworthy the desires of a man, that can but conceive a thought of the next World; who, in a nobler ambition, should desire to live in his substance in Heaven rather than his name and shadow in the Earth. And therefore at my death I mean to take a total adieu of the World, not caring for a Monument, History, or Epitaph, not so much as the memory of my name to be found any where, but in the universal Register of God. I am not yet so Cynical, as to approve the * Testament of Diogenes, nor do altogether follow that Rodomontado of Lucan;

*Who willed his Freind not to bury him, but hang him up with a Staffin his hand to fright away the Crows.

Calo tegitur, qui non babet urnam.

He that unburied lies wants not his Herfe, For unto him a Tomb's the Universe.

But commend in my calmer judgement, those ingenuous intentions that desire to sleep by the Urns of their Fathers, and strive to go the nearest unto corruption. * I do not envy the temper of Crows and Daws.] nor the numerous and weary dayes of our Fathers before the Flood. If there be any Astrology, I may outlive a Jubilee; as yet I have not seen one revolution of Saturn, nor hath my pulse beat thirty years; and yet excepting one, have seen the Ashes, and left under ground, all the Kings of Europe; have been contemporary to three Emperours, sour Grand Signiours, and as many Popes: methinks I have out lived my self, and begin to be weary of the Sun; I have

have shaken hands with delight in my warm blood and Canicular days?

I perceive I do anticipate the vices of age; the world to me is but a dream or mock-show, and we all therein but Pantalones and Anticks,

to my feverer contemplations.

It is not, I confess, an unlawful Prayer to defire to surpass the Sid. 42. days of our Saviour, or wish to outlive that age wherein he thought fittest to dye; yet if (as Divinity affirms) there shall be no gray Hairs in Heaven, but all shill rise in the perfect state of Men, we do but outlive tho se persections in this World, to be recalled unto them by a greater Miracle in the next, and run on here but to be retrograde hereafter. Were there any hopes to outlive vice, or a point to be fuper-annuated from fin, it were worthy our Knees to implore the days of Meibuselab, But age doth not rectifie, but incurvate our natures, turning bad dispositions into worser habits, and like Diseases) brings on incurable vices; for every day we grow weaker in age, we grow fronger in fin; and the number of our days doth but make our fins innumerable. The same vice committed at sixteen, is not the same, though it agrees in all other circumstances, as at forty, but swells and doubles from that circumstance of our ages, wherein, besides that constant and inexcufable habit of transgressing, the maturity of our judgement cuts off pretence unto excuse or pardon : every fin the oftner it is committed, the more it acquireth in the quality of evil; as it fueceds in time, fo it proceeds in degrees of badness; for as they proceed they never multiply, and like Figures in Arithmetick, the last stands for more than all that went before in: And though I think no man can live well once, but he that could live twice, yet for my own part I would not live over my hours past, or begin again the thred of my dayes: * not upon Cicero's ground, because I have lived them well, but for fear I should live them worse: I find my growing Judgement dayly instructs me how to be better, but my untamed affections and confirmed viciofity makes me dayly do worfe; I find in my confirmed age the same fins I discovered in my youth; I committed many then because I was a Child; and because I commit them still. I am yet an Therefore I perceive a man may be twice a Childe, before the dayes of dotage; I and fland in need of Afons Bath before three-

And truely there goes a great deal of providence to produce a mans 3.21. 43: life unto threefcore; there is more required than an able temper for those years; though the radical humour contain in it sufficient Oyl for seventy, yet I perceive in some it gives no light past thirty: men assign not all the causes of long life, that write whole Books thereof. They that sound themselves on the radical Balsome, or vital Sulphur of the parts, determine not why Abel lived not so long as Adam. There is the refore a secret glome or bottom of our dayes; twas his wisdom to deter.

mine

mine them, but his perpetual and waking providence that fulfils and accomplisheth them, wherein the Spirits, our selves, and all the Creatures of God in a secret and disputed way do execute his Will. Let them not therefore complain of immaturity that dye about thirty; they fall but like the whole world, whose solid and well-composed substance must not expect the duration and period of its constitution: when all things are compleated in it, its age is accomplished; and the last and general Fever may as naturally destroy it before fix thousand, as me before forty; there is therefore some other hand that twines the thread of Life than that of Nature: we are not only ignorant in Antipathics and occult qualities; our ends are as obscure as our beginnings; the line of our dayes is drawn by Night, and the various effects therein by a Pensil that is invitible; wherein though we consess our ignorance, I am sure we do not err if we say it is the hand of God.

I am much taken with two verses of Lucan, fince I have been able

not only as we do at School, to construe, but understand:

Victurosque Dei celant ut vivere durent, Felix esse mori.

We're all deluded, vainly fearching mays To make us happy by the length of days; For contingly to make's protract this breath, The Gods conceal the happiness of death.

There be many excellent strains in that Poet, wherewith his Stoical genius hath liberally supplyed him ; and truly there are singular pieces in the Philosophy of Zeno, and doctrine of the Stoicks, which I perceive delivered in a Pulpit pass for current Divinity : yet herein are they in extreams, that can allow a man to be his own Affassine, and so highly * extol the end and suicide of Cato;] this is indeed not to fear death, but yet to be afraid of life. It is a brave act of valour to contemn death; but where life is more terrible than death, it is then the trueft valour to dare to live; and herein Religion hath taught us a noble example: For all the valiant acts of Curtius, Scevela, or Cedrus, do not parallel, or match that one of fob; and sure there is no torture to the rack of as disease, nor any Ponyards in death it felf, like those in the way or prologue to it. * Emori nolo, sed me esse mortuum nibil curo; I would not dye, but care not to be dead. Were I of Cefars Religion, I should be of his defires, and wish rather to go off at one blow, then to be sawed in pieces by the grating torture of a difease. Men that look no farther than their out fides, think health an appurtenance unto life, and quarrel with their constitutions for being tick; but I that have examined.

Seci. 44.

amined the parts of man, and know upon what tender filiaments that Fabrick hangs, do wonder that we are not alwayes fo; and confidering the thousand doors that lead to death, do thank my God that we can dye but once. 'Tis not only the mischief of diseases, and villany of poyfons, that make an end of us; we vainly accuse the fury of Guns, and the new inventions of death; it is in the power of every hand to defiroy us, and we are beholden unto every one we meet, he doth not kill us. There is therefore but one comfort left, that though it be in the power of the weakelt arm to take away life, it is not in the ftrongest to deprive us of death: God would not exempt himself from that, the mifery of immortality in the flesh; he undertook not that was in it immortal. Certainly there is no happiness within this circle of flesh, nor is it in the Opticks of these eyes to behold selicity; the first day of our Jubilee is death; the Devil hath therefore failed of his defires; we are happier with death than we should have been without it: there is no misery but in himself, where there is no end of mifery; and so indeed in his own sense, the Stoick is in the right. He forgets that he can dye who complains of mifery; we are in the power of no calamity while death is in our own.

Now besides the literal and positive kind of death, there are others Scal. 45. whereof Divines make mention, and those I think, not meerly Metaphorical, as mortification, dying unto fin and the world; therefore, I fay, every man hath a double Horoscope, one of his humanity, his birth; another of his Christianity, his Baptism; and from this do I compute or calculate my Nativity, not reckoning those Hora combusta and odd days, or effecting my felf any thing, before I was my Saviours, and involled in the Register of Christ: Whosoever enjoys not this life, I count him but an Apparition, though he wear about him the fensible affections of Flesh. In these moral acceptions, the way to be immortal is to dye dayly; nor can I think I have the true Theory of death, when I contemplate a Skull, or behold a Skeleton with those vulgar imaginations it casts upon us; I have therefore inlarged that common Memento mori, into a more Christian memorandum, Memento quatuor Novissima those four inevitable points of us all Death, Judgement, Heaven and Hell. Neither did the contemplations of the Heathens rest in their Graves, without further thought of Rhadamanth or some judicial proceeding after death, though in another way, and upon suggestion of their natural reasons. I cannot but marvail from what Sibyl or Oracle they stole the prophetic of the worlds destruction by fire, or whence Lucan learned to fay,

Communis mundo superest rogus, offibus aftra Misturus-

There yet remains to th' world one common Fire. Wherein our Bones with Starsshall make one tyre.

I beleive the World grows near its end, yet is neither old nor decayed. nor will ever perish upon the ruines of its own Principles. work of Creation was above nature, so its adversary annihilation: without which the world hath not its end, but its mutation. Now what force should be able to consume it thus far, without the breath of God, which is the truell confuming flame, my Philosophy cannot inform me. Some beleive there went not a Minute to the Worlds Creation, nor shall there go to its destruction; those fix dayes so pun-Qually described, make not to them one moment, but rather seem to manifest the method and Idea of the great work of the intellect of God. than the manner how he proceeded in its operation. I cannot dream that there should be at the last day any such Judicial proceeding, or calling to the Bar, as indeed the Scripture feems to imply, and the literal Commentators do conceive: for unspeakable mysteries in the Scriptures are often delivered in a vulgar and illustrative way; and being written unto man, are delivered, not as they truely are, but as they may be understood; wherein not with standing the different interpretations according to different capacities may stand firm with our devotion, nor be any way prejudicial to each fingle edification.

Sec. 46.

Now to determine the day and year of this inevitable time, is not onely convincible and statute-madness, but also manifest impiety: *How shall we interpret Elias 6000 years,] or imagine the secret communicated to a Rabbi, which God hath denyed unto his Angels? It had been an excellent quære to have posed the Devil of Delphos, and must needs have so ced him to some strange amphibology; it hath not onely mocked the predictions of fundry Attrologers in Ages past, but the Propheties of many melancholy Heads in these present; who neither understanding reasonably things past or present, pretend a knowledge of things to come. Heads ordained onely to manifest the incredible effects of melancholy, and to fulfil old prophecies, rather Inthose days than be Authors of new. [In those days there shall come Wars, and Rumors of Wars.] to me leams no Prophelie, but a constant truth in all times verified fince it was pronounced : There shall be signs in the Moon and Stars; how comes he then like a Thief in the night, when he gives an Item of his coming? That common fign drawn from the Revelation of Antichrift, is as obscure as any; in our common compute he hath been come these many years; but for my own part to **fpeak**

there Ih Il come Lyars a dfallerro. phets.

fpeak freely, I am half of opinion that Antichrift is the Pailosophers Stone in Divinity, for the discovery and invention whereof, though there be prescribed Rules, and probable inductions, yet hath hardly any man attained the perfect discovery thereof. That general opinion that the World grows near its end, hath poffeffed all Ages patt as near. ly as ours: I am afraid that the Souls that now depart, cannot escape that lingring expollulation of the Saints under the Altar, Quousque Domine? Hw long, O Lord: and groan in the expectation of that

great Jubilee.

This is the day that must make good that great attribute of God, Sed. 47. his Justice; that must reconcile those unanswerable doubts that torment the wifeft understandings; and reduce those seeming inequalities and respective distributions in this world, to an equality and recompensive Justice in the next. This is that one day, that shall include and comprehend all that went before it; wherein, as in the last Scene. all the Actors must enter, to compleate and make up the Catastrophe of this great peice. This is the day whose memory hath only power to make us honeft in the dark, and to be vertuous without a Witness. * Ipfa sui pretium virtus sibi] that Vertue is her own reward, is but a cold Principle, and not abic to maintain our variable resolutions in a constant and settled way of goodness. I have practised | that honest artifice of Senica, ? and in my retired and folitary imaginations, to detain me from the foulness of vice, have fancied to my felt the presence of my dear and worthieft Friends, before whom I should lose my Head, rather than be vitious; yet herein I found that there was nought but moral houelty, and this was not to be vertuous for his fake who mult reward us at latt. * I have tryed if I could reach that great refolution on of his, to be honest without a thought of Heaven or H.II;] and indeed I found upon a natural inclination, and inbred loyalty unto vertue, that I could ferve her without a livery, yet not in that refolved and venerable way, but that the frailty of my nature, upon any eatie temptation, might be induced to forget her. The life therefore and Spirit of all our Actions, is the Refurrection, and stable apprehension that our Ash. sshall enjoy the Fruit of our pious endeavours; without this, all Religion is a Fallacy, and those impieries of Lucian, Euripides, and Julian, are no blasphemies, but subile verities, and Atheifts have been the only Philosophers.]

How shall the dead arife, is no question of my Faith; to believe Sed. 48. onely possibilities, is not Faith, but meer Philosophy: many things are true in D.vinity, which are neither inducible by reason, nor confirmable by fense; and many things in Pailosophy confirmable by fense, yet not inducible by reason. Thus it is impessible by any solid or demonstrative reasons to perswade a man to believe the conversion of the Needle to the North; though this be peffible and true, and eafily credible,

credible, upon a fingle experiment unto the fenfe. I be'i ve that our efiranged and divided Ashes shall unite again; that our separated Dust after fo many Pilgrimages and transformations into the parts of Minerals, Plants, Animals, Elements shall at the Voice of God return into their primitive shapes, and joyn again to make up their primary and predethinate forms. As at the Creation there was a separation of that confuled Mass into its pieces; so at the destruction thereof there shall be a separation into its distinct individuals. As at the Creation of the World, all the diffin a species that we behold, lay involved in one Miss, till the fruitful Voice of God seperated this united multitude into its feveral species: so at the last day, when those corrupted reliques shall be scattered in the Wilderness of Forms, and feem to have firgot their proper habits, * God by a powerful Voice shall command them back into their proper shapes,] and call them out by their single individuals: Then shall appear the fertility of Adam, and the Magick of that Sperm that hath dilated into fo many milli. ons. I have often beheld as a Miracle, that artificial Refurrection and Revisitation of Mercury, how being mortified into a thousand thapes, it affumes again its own, and returns into its numerical felt. Let us speak naturally, and like Philosophers, the forms of alterable bodies in these sentible corruptions perish not; nor as we imagine, wholly quit their manfions, but retire and contract themselves into their secret and unaccessible parts, where they may best protect themselves from the Action of their Antagonist. A Plant or Vegetable confumed to Ashes, by a contemplative and school-Philotopher feemsutterly defiroyed, and the form to have taken his leave for ever : But to a sensible Artist the forms are are not perished, but withdrawn into their incombusible part, where they lye secure from the Action of that devouring Element. This is made good by experience, which can from the Athes of a Plant revive the Plant, and from its Cinders recall it into its Stalks and Leaves again. Art of man can do in these inferiour pieces, what blasphemy is it to affirm the Finger of God cannot do in these more perfect and sensible structures? This is that mystical Philosophy, from whence no true Scholar becomes an Atheift, but from the visible effects of nature grows up a real Divine, and beholds not in a Dream, as Ezekiel, but in an ocular and vitible object, the Types of his Refurrection.

Now the necessary Mantions of our restored selves, are those two contrary and incompatible places we call Heaven and Hell; to define them, or strictly to determine what and where these are, surpasseth my Divinity. That elegant Apostle which seemed to have a glimpse of Heaven, hath left but a negative description thereof; which neither Eve bath seen, nor Ear bath heard, nor can enter into the Heart of Min: he was translated out of kimself to behold it; but being returned

Sca. 49.

returned into himself could not express it. Saint Johns description by Emeralds, Chryllites and pretious Stones, is too weak to express the material Heaven we behold. Breifly therefore, where the Soul hath the full measure, and the complement of happiness; where the boundless Appetite of that Spirit remains compleatly satisfied, that it can neither delire addition nor alteration, that I think is truely and this can onely be in the enjoyment of that effence, whole infinite goodness isable to terminate the delires of its selt, and the unfatiable wishes of ours; where-ever God will thus manifest himfelf, there is Heaven, though within the circle of this sensible World. Thus the Soul of man may be in Heaven any where, even within the limits of his own proper body; and when it ceafeth to live in the body, it may remain in its own Soul, that is, its Creator. And thus we may fay that Sunt Paul, whether in the body, or out of the body, was yet in Heaven. To place it in the Empyreal, or beyond the tenth Spheir, is to forget the world's destruction; for when this sensible World shall be destroyed, all shall then be here as it is now there, an Empyreal Heaven, a quafi vacuity; when to ask where Heaven is, is to demand where the Preferce of God is, or where we have the glory of that happy Vision. Mifes that was bred up in all the Learning of the Egyptians, committed a gross absurdity in Philofophy, when with these Eyes of Flesh he defired to see God, and petitioned his Miker, that is truth it self, to a contradiction. Those that imagine Heaven and Hell Neighbours, and conceive a vicinity between those two extreams, upon consequence of the Parable, where Dives discoursed with Lazarus in Abraham's bosome, do too grossy conceive of those glorified Creatures, whose Eyes shall easily out-see the Sun, and behold without perspective the extreamelt distances: For if there shall be in our glorified Eyes, the faculty of fight and reception of Obj cts, I could think the visible species there to be in as unlimitable a way, as now the intel-I grant that two Bodies placed beyond the tenth Sphear, or in a vacuity, according to Aristotles Phylosophy, could not behold each other, because there wants a Body or Medium to hand and transport the visible Rayes of the Object unto the sense; but when there shall be a general defect of either Medium to convey, or light to prepare and dispose that Medium, and yet a perfect Vision, we must suspend the Rules of our Philofophy, and make all good by a more absolute piece of Ofticks.

I cannot tell how to fay that fire is the essence of Hell; I know not what to make of Purgatory, * or conceive a slame that can either prey upon, or purific the substance of a soul:] those slames of sulphur phur

phur mention'd in the Scriptures, I take not to be understood of this present Hell, but of that to come, where fire shall make up the complement of our tortures, and have a bodyor subject wherein to manifest its tyranny : Some who have had the honour to be textuary in Divinity, are of opinion it shall be the same specifical fire with ours. is hard to conceive, yet can I make good how even that may prey upon our bodies, and yet not confume us : For in this material world, there are bodies that perfift invincible in the powerfullest flames; and though by the action of fire they fall into ignition and liquation, yet will they never fuffera destruction: I would gladly know how Moses with an actual fire calcin'd, or burnt the Golden Calf unto powder : For that mystical metal of Gold, whose solary and celestial nature I admire, exposed unto the violence of fire, grows only hot and liquifies, but confumeth note to when the confumable & volatile pieces of ourbodies shall be refined into a more impregnable and fixed temper, like Gold, though they fuffer from the actions of flames, they shall never perifh but lycimmortal in the arms of fire. And furely, if this frame must fuffer only by the action of this element, there will many bodies escape: and not only, Heaven, but Earth will not be at an end, but rather a beginning. For at present it is not Earth, but a composition of Fire. Water, Earth, and Air; but at that time, spoiled of these ingredients, it shall appear in a substance more like it felf, its ashes. Philosophers that opinioned the worlds destruction by fire, did never dream of annihilation, which is beyond the power of fublunary caufes ; for the last and proper action of that Element is but vitrification, or a reduction of a body into glass; and therefore some of our Chymicks facetiously affirm, that at the last fire all shall be christal-I zed and reverberated into glass, which is the utmost action of that Element. Nor need we fear this term [annihilation] or wonder that God will destroy the works of his Creation; For man subtifling, who is, and will then truly appear a Microcoim, the world cannot be faid to be deftroyed. For the eyes of God, and perhaps also of our glorified selves, shall as really behold and contemplate the world in its Epitome or contracted effence, as now it dothat large and in its dilated substance. In the feed of a Plant to the eyes of God, and to the understanding of man, there exists, though in an invisible way, the perfect leaves, flowers, and fruit thereof for things that are in poffe to the fense, are actually existent to the understanding.) Thus God beholds all things, who contemplates as fully his works in their Epitome, as in their full volume ; and beheld as amply the whole world in that little compendium of the fixth day, as in the scattered and dilated pieces of those five before.

Men commonly fet forth the torments of Hell by Fire, and the ex- Sett. 51. tremity of corporal Afflictions, and describe Hell in the fame method that Mahomet doth Heaven. This indeed makes a noise, and Drums in popular Ears: but if this be the terrible piece thereof, it is not worthy to stand in diameter with Heaven, whose happiness confiss in that part that is best able to comprehend it, that immortal effence, that translated Divinity and Colony of God, the Soul. Surely though we placeHell under Earth, the Devil's walk and purlue is about it: Men speak too popularly who place it in those flaming Mountains, which to groffer apprehensions represent Hell. The Heart of Man is the place the Devils dwell in : I feel sometimes a Hell within my felf; Lucifer keeps his Court in my Breaft; Legion is revived in * There are as many Hells, as Anaxagoras conceited Worlds : 7 there was more than one Hell in Magdalene, when there were feven Devils; for every Devil is an Hell unto himself; he holds enough of torture in his own ubi, and needs not the mifery of circumference to afflict him: and thus a diffracted Conscience here, is a shadow or introduction unto Hell hereafter. Who can but pity the merciful intention of those hands that do destroy themselves? the Devil were it in his power would do the like; which being impossible, his miseries are endless, and he suffers most in that attribute wherein he is impassible, his immortality.

I thank God that with joy I mention it, I was never afraid of Hell, Sect. 52. nor never grew pale at the description of that place; I have so fixed my contemplations on Heaven, that I have almost forgot the Idea of Hell, and am afraid rather to lose the Joyes of the one, than endure the mifery of the other; to be deprived of them, is a perfect Hell, and needs methinks no addition to compleat our afflictions; that terrible term hath never detained me from fin, nor do I owe any good action to the name thereof: I fear God, yet am not afraid of him; his Mercies make me ashamed of my fins, before his Judgements afraid thereof : these are the forced and secondary method of his wisdom, which he useth but as the last remedy, and upon provocation; a course rather to deter the wicked, than incite the vertuous to his worship, I can hardly think there was ever any scared into Heaven; they go the fairest way to Heaven, that would serve God without a Hell; other Mercenaries, that crouch unto him in fear of Hell, though they term themselves the Servants, are indeed but the Slaves

of the Almighty. And to be true, and speak my Soul, when I survey the occur- Sea. 53. rences of my Life, and call into account the Finger of God, I can perceive nothing but an Abyss and Mass of Mercies, either in general to mankind, or in particular to my felf: and whether out of the

prejudice of my affection, or an inverting and partial conceit of his

mercies, I know not; but those which others term Croffes, Ailictie ons, Judgements, Misfortunes, to me, who inquire farther into them than their visible effects, they both appear, and in event have ever proved the secret and diffembled favours of his affection. It is a fingular piece of Wildom to apprehend truly, and without paffion, the Works of God, and so well to diffinguish his Justice from his M:rcy, as not mif-call those noble Attributes: yet it is likewise an honest piece of Logick, so to dispute and argue the proceedings of God, as to diffinguish even his judgements into mercies. For God is merciful unto all, because better to the worlt, than the belt deserve; and to say he punisheth none in this world, though it be a Paradox, is no ablurdity. To one that hath committed Murther, if the Judge should only ordain a Fine, it were a madnets to call this punishment, and to repine at the fentence, rather than admire the Clemency of the Judge: Thus our offences being mortal, and deserving not only Death, but Damnation; if the goodness of God be content to traverse and pass them over with a lofs, misfortune, or difeafe; what Frensie were it to term this punishment, rather than an extremity of mercy; and to groan under the Rod of his ludgements, rather than ad mire the Scepter of his Mercies? Therefore to adore, honour, and admite him, is a Debt of Gratitude due from the Obligation of our Nature, States, and Conditions; and with these thoughts, he that knows them best, will not deny that I adore him. That I obtain Heaven, and the blifs thereof, is accidental, and not the intended work of my devotion; it being a felicity I can neither think to deferve, not scarce in modefly to expect. For those two ends of us all, either as rewards or punishments, are mercifully ordained and disproportionably disposed unto our Actions; the one being so far beyond our deserts, the other so infinitely below our demerits.

There is no Salvation to those that believe not in Christ, that is, say some, since his Nativity, and as Divinity affirmeth, before also; which makes me much apprehend the end of those honest Worthies and Philosophers which dyed before his Incarnation. * It is hard to place those Souls in Hell] whose worthy Lives do teach us Vertue on Earth: methinks amongst those many Subdivisions of Heil, there wight have been one Limbo lest for these. What a strange Visions will it be to see their Poetical sictions converted into Verities, and their imagined and fancied Furies, into real Divils? how strange to them will found the History of Adam, when they shall suffer for him they never heard of? when they derive their Genealogy from the Gods, shall know they are the unhappy issue of sinful man? It is an insolant part of reason, to controver the Work or God, of question the Justice of his proceedings. Could Humility teach others, as it hath instructed me, to contemplate the infinite and incomprehen-

Sed 54.

sible distance betwire the Creator and the Creature; or did we seriously perpend that one Simile of St. Paul, Shall the Vessel say to the Potter, why hast thou made me thus? it would prevent these arrogant disputes of reason, nor would we argue the definitive sentence of God, either to Heaven or Hell. Men that live according to the right rule and law of reason, live but in their own kind, as beasts do in theirs; who justly obey the prescript of their natures, and therefore cannot reasonably demand a reward of their actions, as only obeying the natural dictates of their reason. It will therefore, and must at last appear, that all salvation is through Christ; which verity, I fear, these great examples of vertue must confirm and make it good, how the persectest actions of earth have no title or claim unto Heaven.

Nor truly do I think the lives of these, or of any other were ever Sed. 55. correspondent, or in all points conformable unto their doctrine; it is evident that * Aristotle transgressed the rule of his own Ethicks; the Stoicks that condemn passion, and command a man to laugh in Phalaris his Bull, could not endure without a groun a fit of the Stone or Cholick. I The Scepticks that affirmed they knew nothing,] that opinion confute themselves, and thought they knew more than all the world beside. Diogenes I hold to be the most vain-glorious man of his time, and more ambitious in refusing all Honours, than Alexander in rejecting none. Vice and the Devil put a Fallacy upon our Reasons, and provoking us too hastily to run from it, entangle and profound us deeper in it. * The Duke of Venice, that weds himselfunto the Sea, by a Ring of Gold,] I will not accuse of prodigality, because it is a solemnity of good ute and consequence in the State : | But the Philosopher that threw his mony into the Sea to avoid Avarice, was a notorious prodigal,] There is no road or ready way to vertue; it is not an easie point of Art to disentangle our selves from this riddle, or web of Sin: To perfect vertue, as to Religion, there is required a Panoplia, or come pleat armour; that whil'st we lye at close ward against one Vice, we lye not open to the venny of another: And indeed wifer discretions that have the thread of reason to conduct them, offend with oue pardon; whereas, under-heads may stumble without dishonour. * There are so many circumstances to piece up one good action, that it is a leffon to be good, and we are forced to be vertuous by the book Again, the Practice of men holds not an equal pace; yes, and often runs counter to their Theory; we naturally know what is good, but naturally purfue what is evil : the Rhetorick wherewith I perswade another, cannot perswade aid G2 salu Lind to the a

my self: There is a depraved appetite in us., that will with patience hear the learned instructions of reason, but yet perform no farther than agrees to its own irregular humour. In brief, we all are Monsters, that is, a composition of Man and Beast, wherein we must endeavour to be as the Poets sancy that wise man Chiron, that is, to have the Region of Man above that of Beast, and Sense to sit but at the seet of Reason. Lastly, I do desire with God, that all, but yet affirm with men, that sew shall know salvation; that the bridge is narrow, the passage straight unto life: yet those who do confine the Church of God, either to particular Nations, Churches or Families, have made it far narrower than our Saviour ever meant it.

Sett. 56.

* The vulgarity of those Judgements that wrap the Church of God in Strabo's cloak, and rettrain it unto Europe,] seem to me as bad Geographers as Alexander, who thought he had Conquer'd all the world, when he had not subdued the half of any part there-of: For we cannot deny the Church of God both in Asia, and Africa, if we do not forget the Perigrinations of the Apostles, the deaths of the Martyrs, the Stssions of many, and, even in our reformed judgement, lawful Councils, held in those parts in the minority and nonage of ours: nor must a sew differences, more remarkable in the eyes of man, than perhaps in the judgement of God, excommunicate from Heaven one another, much less those Christians who are in a manner all Martyrs, maintaining their Faith in the noble way of persecution, and serving God in the Fire, whereas we honour him in the Sun-shine.

Tis true, we all hold there is a number of EleA, and many to be faved, yet take our Opinions together, and from the confution thereof, there will be no fuch thing as falvation, nor shall any one be faved; for first the Church of Rome condemneth us, we likewife them; the Sub-reformists and Sectaries sentence the Doctrine of our Church as damnable; the Atomist, or Familist, reprobates all these; and all these, them again. Thus whilst the mercies of God do promise us Heaven, our conceits and opinions exclude us from that place. There must be therefore more than one St. Peter; particular Churches and Sects usurp the gates of Heaven, and turn the key against each other; and thus we go to Heaven against each others wills, conceits, and opinions, and with as much uncharity, as ignorance, do err, I sear, in points not only of our own, but one anothers salvation.

Sect. 57.

I believe many are faved, who to man feem reprobated; and many are reprobated, who in the opinion and fentence of man stand elected: there will appear at the last day, strange and unexpected example s, both of his Justice and his Mercy; and therefore to de-

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tine either, is folly in man, and infolency even in the Devils: those acute and subtile Spirits in all their sagacity, can hardly divine who shall be saved; which if they could Prognostick, their labour were at an end; nor need they compats the Earth seeking whom they may devour. * Those who upon a rigid Application of the Law, sentence Solomon unto damnation condemn not only him, but them, selves, and the whole World; for by the Letter, and written Word of God, we are without exception in the state of Death, but there is a Prerogative of God, and an arbitrary pleasure above the Letter of his own Law, by which alone we can pretend unto Salvation, and through which Solomon might be as as easily saved as those who condemn him.

The number of those who pretend unto Salvation, and those infinite swarms who think to pass through the Eye of this Needle, have
much amazed me. That name and compellation of little Flock, doth
not comfort, but deject my Devotion; especially when I rested upon
mine own unworthiness, wherein, according to my humble apprehentions, I am below them all. I believe there thall never be an Anarchy
in Heaven; but as there are Hierarchies amongst the Angels, so shall
there be degrees of priority amongst the Saints. Yet is it (I protest)
beyond my ambition to aspire unto the first ranks; my defires only are,
and I shall be happy therein, to be but the last man, and bring up the
Rear in Heaven.

Again, I am confident, and fully perswaded, yet dare not take my Sea, 59. Oath of my Salvation: I am as it were fure, and do believe without all doubt, that there is such a City as Constantinople; yet for me to take my Oath thereon, were a kind of Perjury, because I hold no infallible warrant from my own fense to confirm me in the certainty thereof: And truely, though many pretend to an absolute certainty of their Salvation, yet when an humble Soul shall contemplate our own unwofthiness, she shall meet with many doubts, and suddenly find how little we stand in need of the precept of St. Paul, Work out your Salvation with fear and trembling. That which is the cause of my Election, I hold to be the cause of my Salvation, which was the mercy and beneplacit of Cod, before I was, or the Foundation of the World. Before Abrabam was I am, is the faying of Christ; yet is it true in some sense, if I fav it of my felf; for I was not only before my felf, but Adam, that is in the Idea of God, and the decree of that Synod held from all And in this sense, I say, the World was before the Creation, and at an end before it had a beginning; and thus was I dead before I was alive; though my Grave be England, my dying place was Paradife; and Eve miscarried of me, before the conceived of Cain.

Sea. 60.

Infolent zeals that do decry good Works, and rely only upon Faith, take not away merit: for depending upon the efficacy of their Faith, they enforce the condition of God, and in a more sophistical way do feem to challenge Heaven. It was decreed by God, that only those that lapt in the Water like Dogs, should have the honour to destroy the Midianites ; yet could none of those justly challenge, or imagine he deserved that honour thereupon. I do not deny, but that true Faith, and such as God requires, is not only a Mark or Token, but also a means of our Salvation; but where to find this, is as obscure to me, as my last end. And if our Saviour could object unto his own Disciples and Favourites, a Faith, that, to the quantity of a Grain of Mustard seed, is able to remove Mountains; surely that which we boatt of, is not any thing, or at the most, but a remove from nothing. This is the Tenor of my Belief; wherein, though there be many things fingular, and to the humour of my irregular felf; yet if they square not with maturer judgements, I disclaim them, and do no turther favour them, than the learned and best judgements shall authorize them.

THE



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SECOND PART.

Now for that other Vertue of Charity, without which Faith is a Sett. 1. neer notion, and of no existence, I have ever endeavoured to nourish the merciful disposition and humane inclination I borrowed from my Parents, and regulate it to the written and prescribed Laws of Charity; and if I hold the true Anatomy of my felf, I am delineated and naturally framed to such a piece of Vertue: for I am of a Conflitution fo general, that it comforts and sympathizeth with all things; I have no antipathy, or rather Idio-syncrasic, in dyet, humour, air, any thing: " I wonder not at the French for their Dahes of Frogs, Smalls] and Toadfloals nor at the Jews for Locusts and Grashop. pers; but being amongst them, make them my common Viands; and I find they agree with my Stomack as well as theirs. I could digeft a Sallad gathered in a Church yard, as well as in a Garden. I cannot fart at the presence of a Serpent, Scorpion, Lizard, or Salamander; at the fight of a Toad or Viper, I find in meno defire to take up a Stone to deftroy them. I feel not in my felf those common Antipathies that I can discover in others: Those National repugnances do not touch me, nor do I behold with prejudice the French, Italian, Spaniard and Dutch; but where I find their actions in ballance with my Country-n.e.'s, I honour, love, and embrace them in some degree: I was born in the eighth Climate, but feem for to be framed and constellated unto all: I am no Plant that will not prosper out of a Gar-All places, all Airs make unto me one Country; I am in England, every where, and under any Meridian: I have been the pwrackt, yet am not Enemy with the Sea or Winds; I can fludy, p'a; or fleep in a Tempest. In breif, I am averse from nothing; my Conscience would give me the lye if I should absolutely detest or hate any essence, but the Devil; or fo at least abhor any thing, but that we might come to composition. If there be any among those common objects of hatred I do contemn and laugh at, it is that great Enemy of Reason,

Vertue and Religion, the Multitude; that numerous peice of monfirofity, which taken afunder, feem men, and the reasonable Creatures of God; but confused together, make but one great Beast, and a monfirefity more prodigious then Hydra: it is no breach of Charity to call these Fools; it is the flyle all holy Writers have afforded them, set down by Solemon in Canonical Scripture, and a point of our Faith to believe fo. Neither in the name of Multitude, do I only include the the base and minor fort of People; there is a rabble even amongst the Gentry, a fort of Plebeian heads, whose fancy moves with the same Wheel as these; Men in the same Level with Mechanicks, though their fortunes do somewhat guild their infirmities, and their Purses compound for their follies. But as in casting account, three or four men together come short in account of one man placed by himself below them; fo neither are a Troop of these ignorant Doradoes of that true esteem and value, as many a forlorn person, whose condition doth place him below their Feet. Let us speak like Politicians, there is a Nobility without Heraldry, a natural dignity, whereby one man is ranked with another, another filed before him, according to the quality of his Defert, and preheminence of his good parts. the corruption of these times, and the byas of present practice wheel another way; thus it was in the first and primitive Common-wealths, and is yet in the integrity and Cradle of well order'd Politics, till corruption getteth ground; ruder defires labouring after that which wifer confiderations contemn, every one having a liberty to amass and heap up riches, and they a license or faculty to do or purchase any

This general and indifferent temper of mine, doth more neerly dispose me to this noble vertue. It is a happiness to be born and framed unto vertue, and to grow up from the Seeds of Nature, rather than the inoculations and forced graffs of Education: yet if we are directed only by our particular Natures, and regulate our inclinations by no higher rule than that of our reasons, we are but Moralitts; Divinity will Therefore this great work of Charity, must still call us Heathens. have other motives, ends, and impulsions: I give no Alms to fatisfie the hunger of my Brother, but to fulfil and accomplish the Will and Command of my God; I draw not my Purse for his sake that demands it, but his that enjoyned it; I relieve no man upon the Rhetorick of his miseries, nor to content mine own commiserating disposition; for this is still but moral Charity, and an Act that oweth more passion than He that relieves another upon the bare suggestion and bowels of pity, doth not this so much for his sake, as for his own : for by compassion we make others misery our own; and so by relieving them, we relieve our felves also It is as erroneous a conceit to redress other Mens misfortunes upon the common confiderations of merciful natures, that

Sett. 2.

it may be one day our own case; for this is a finister and politick kind of Charity, whereby we seem to bespeak the pities of men in the like occasions; and truely I have observed that those professed Eleemofynaries, though in a croud or multitude, do yet direct and place their petitions on a few and selected persons; there is surely a Physiognomy, which those experienced and Master Mendicants observe, whereby they instantly discover a merciful aspect, and will fingle out a face, wherein the y fpy the fignatures and marks of mercy. For there are mystically in our faces certain Characters which carry in them the motto of our Souls, wherein he that can read A. B. C. may read our natures. I hold moreover that there is a Phy. tognomy, or Physiognomy, not only of men, but of Plants and Vegetables; and in every one of them, some outward figures which hang as fignes or bushes of their inward forms. The Finger of God hath left an Inscription upon all his works, not graphical, or composed of Letters, but of their several forms, constitutions, parts, and operations, which aptly joyned together do make one word that doth express their natures. By these Letters God calls the Stars by their names; and by this Alphabet Adam affigned to every Creature a name peculiar to its nature. Now there are besides these Characters in our Faces, certain mystical figures in our Hands. which I dare not call meer dashes, strokes, a la volce, or at random, because delineated by a Pencil that never works in vain ; and hereof I take more particular notice, because I carry that in mine own hand, which I could never read of, nordiscover in another. Aristotle I confess,in his acute, and singular Book of Physiognomy, hath made no mention of Chiromancy; yet I believe the Egyptians, who were nearer addicted to those abstruse and mystical Sciences, had a knowledge therein; to which those vagabond and counterfeit Egyptians did after pretend, and perhaps retained a few corrupted principles, which sometimes might verifie their prognosticks.

It is the common wonder of all men, * how among so many millions of faces, there should be none alike:] Now contrary, I wonder as much show there should be any alike: he that shall consider how many thousand several words have been seriously and without study composed out of 24. Letters; withall, how many hundred lines there are to be drawn in the Fabrick of one Man; shall easily finde that this variety is necessary: And it will be very hard that they shall so concur, as to make one portract like another. Let a Painter carelessy limb out a million of Faces, and you shall find them all different; yea let him have his Copy before him, yet after all his art there will remain a sensible distinction; for the pattern or example of every thing is the per-

fectest in that kind, whereof we still come short, though we transfeed or go beyond it, because herein it is wide, and agrees not in all points unto the Copy. Nor doth the Similitude of Creatures disparage the variety of nature, nor any way confound the Works of God. For even in things alike there is divertity; and those that do seem to accord, do manifelly disagree. And thus is man like God; for in the same things that we resemble him, we are utterly different from him. There was never any thing so like another, as in all points to concur; there will ever some reserved difference slip in, to prevent the identity, without which two several things would not be alike, but the same, which is impossible.

Sect . 3.

But to return from Philosophy to Charity; I hold not so narrow a conceit of this vertue, as to conceive that to give Alms, is only to be Charitable, or think a piece of Liberallity can comprehend the Tctal of Charity; Divinity hath wifely divided the act thereof into many branches, and hath taught us in this narrow way, many paths unto goodness: as many wayes as we may do good, so many wayes we may be charitable: there are infirmities not only of Body, but of Soul and Fortunes, which do require the merciful hand of our abilities. I cannot contemn a man for ignorance, but behold him with as much pity as I do Lazarus. It is no greater Charity to cloath his body, than apparel the nake dness of his Soul. It is an honourable object to fee the reasons of other men wear our Liveries, and their borrowed understandings do homage to the bounty of ours: It is the cheapest way of beneficence, and like the natural charity of the Sun, illuminates another without obscuring it self. To be reserved and caitiff in this part of goodness, is the fordidest piece of covetousness, and more contemptible than the pecuniary Avarice. this (as calling my felf a Scholar) I am obliged by the duty of my condition; I make not therefore my head a grave, but a treasure of knowledge; I intend no Monopoly, but a community in learning; I study not for my own sake only, but for theirs that study not for themselves. I envy no man that knows more than my self, but pity them that know less. I instruct no man as an exercise of my knowledge, or with an intent rather to nourish and keep it alive in mine own head, than beget and propagate it in his; and in the midit of all my endeavours, there is but one thought that dejects me, that my acquired parts must perish with my self, nor can be Legacyed among my honoured Friends. I cannot fall out, or contemna man for an errour, or conceive why a difference in Opinio on should divide an affection . for Controversies , Disputes , and Argumentations, both in Philosophy, and in Divinity, if they meet with diferect and peaceable natures, do not infringe the Laws of Charity : in all disputes, to much as there is of passion, so much there is of nothing to the purpose; for then Reason, like a bad Hound, spends upon a falle Sent, and forfakes the question first started. And in this is one reason why Controverties are never determined; for though they be amp'y proposed, they are scarce at all handled, they do so swell with unnecessary Digressions; and the Parenthesis on the party, is often as large as the main Descourte upon the Subject. The Foundations of Religion are already established, and the Principles of Salvation subscribed unto by all; there remains not many Controversies worthy a Passion, and yet never any disputed without, not only in Divinity, but inferiour Arts : * What a Ba : poxouvou. xia and hot skirmish is betwixt S, and T. in Lucian: How do Grammarians hack and flash for the Genitive Cale in Jupiter? How they do break their own Pates, to falve that of Priscian? Siferet in terris, rideret Democritus. Yea, even amongst wifer militants, how many Wounds have been given, and credits flain, for the poor victory of an opinion, or beggerly conquest of a distinction? Scholars are men of Place, they bear no Arms, | but their Tongues are tharper than Actius Razor;] their Pens carry farther, and give a lowder report than Thunder : I had rather stand in the shock of a Basilisco, than in the fury of a merciless Pen. It is not meer Zeal to Learning, or Devotion to the Muses, that wifer Princes Patron the Arts, and carry an indulgent Aspect unto Scholars; but a defire to have their names eternized by the memory of their writings, and a fear of the revengtul Pen of succeeding Ages: for these are the men, that when they have played their parts, and had their exits, must step out and give the moral of their Scenes, and deliver unto Posterity an Inventory of their Vertues and Vices-And surely there goes a great deal of Conscience to the compiling of an History: there is no reproach to the Scandal of a Storysit is such an authentick kind of falshood, that with authority belies our good names to all Nations and Posterity.

There is another offence unto Charity, which no Author hath ever written of, and few take notice of, and that's the reproach, not of whole professions, mysteries and conditions, but of whole Nations, wherein by opprobious Epithets we miscal each other, and by an uncharitable Logick, from a disposition in a rew, conclude a habit in all-

Sect. 4.

Le mutin Anglois, & le bravache Escosson; Le bougre Italian, & le fol Francois; Le poultron Romani, le larron de Gascongne, L'Espagnol superbe, & l'Aleman yur ongne.

* St. Paul. that calls the Cretians Lyers, doth it but indirectly, and upon quotation of their own Poets.] | It is as bloody a thought in one way; as Nero's was in another. For by a word we wound a thousand,] and at one blow affassine the honour of a Nation. It is as compleat a piece of madness to miscal and rave against the times; or think to recal men to reason, by a fit of passion: Democritus, that thought to laugh the times into goodness, seems to me as deeply Hypochondriack, as Heraclitus that bewailed them; it moves not my Spleen to behold the multitude in their proper humours, that is, in their fits of folly and madness, as well understanding that wisdom is not prophan'd unto the World, and cis the priviledge of a few to be Vertuous. They that endeavour to abolish Vice, destroy also Vertue; for contraries, though they destroy one another, are yet in life of one another. Thus Vertue (abolish Vice) is an Idea : again, the community of fin doth not disparage goodness; for when Vice gains upon the major part, Vertue in whom it remains, becomes more excellent; and being lost in some; multiplies its goodness in others, which remain untouched, and perfift intire in the general inundation. I can therefore behold Vice without Satyr, content only with an admonition, or instructive reprehension; for Noble Natures, and such as are capable of goodness, are railed into Vice, that might as easily be admonished into Vertue; and we should be all so far the Orators of goodness, as to protect her from the power of Vice, and maintain the cause of injured truth. No man can justly censure or condemn another; because indeed no man truly knows another. This I perceive in my felf; for I am in the dark to all the World, and my nearest Friends behold me but in a Cloud: those that know me but superficially, think less of me than I do of my felf; those of my near acquaintance think more: God, who truly knows me, knows that I am nothing; for he only beholds me, and all the World, who looks not on us through a derived Ray, or a Trajection of a sensible Species, but beholds the substance without the help of accidents, and the forms of things, as we their Operations. Further, no man can judge another, because no man knows himself; for we censure others but as they disagree from that humour which we fancy laudable in our felves, and commend others but for that wherein they feem to quadrate and confent with us. So that in conclusion, all is but that we all condemn, Self-love. the general complaint of these times, and perhaps of those past, that Charity grows cold; which I perceive most verified in those which most do manifest the Fires and Flames of Zeal; for it is a Vertue that best agrees with coldest Natures, and such as are complexioned for humility: But how shall we expect Charity towards others, when we are uncharitable to our felves? Charity begins at home, is the voice of the World; yet is every man his greatest Enemy, and as it

were, his own Executioner. Non occides, is the Commandment of God, yet scarce observed by any man; for I perceive every man is his own Atropos, and lends a hand to cut the Thred of his own days. Cain was not therefore the first Murtherer, but Adam, who brought in death; wherefore he beheld the practice and example in his own Son Abel, and faw that verified in the experience of another, which faith

could not perswade him in the Theory of himself.

There is I think, no man that apprehendeth his own miseries le fs than Sett. 5. my felf, and no man that so nearly apprehends anothers. I could lose an Arm without a Tear, and with few Groins; methinks, be guirtered into pieces; yet can I weep most seriously at a Play, and receive with true passion, the counterfeit Griefs of those known and professed Impostures. It is a barbarous part of inhumanity to add unto any afflicted parties mifery, ot indeavour to multiply in any man, a passion, whose single nature is already above his patience: this was the greatest affliction of Job; and those oblique expostulations of his Friends. a deeper injury than the down-right blows of the Devil. It is not the Tears of our own Eyes only, but of our Friends also, that do exhauft the current of our forrows; which falling into many fireams, runs more peaceably, and is contented with a narrower Channel. is an Act within the power of Charity, to translate a passion out of one Breast into another, and to divide a forrow almost out of it self: for an affliction, like a dimension, may be so divided, as if not indivisible, at least to become insensible. Now with my friend I desire not to share or participate, but to engross his forrows, that by making them mine own, I may more easily discuss them; for in mine own reason, and within my self, I can command that, which I cannot intreat without my felf, and within the circle of another. I have often read of those noble pairs and examples of friendship, not so truly Histories of what had been, as Fictions of what should be; but I now perceive nothing in them but possibilities, nor any thing in the Heroick examples of Damon and Pythias, Achilles and Patroclus, which methinks upon some grounds I could not perform within the narrow compass of my felf. That a man should lay down his life for his friend, feems strange to yulgar affections, and such as confine themselves within that worldly principle, Charity begins at home. For mine own part, I could never remember the relations that I held unto my felf, nor the respect that I owe unto my own nature, in the cause of God, Next to these three, I do embrace my my Country, and my Friends. felf: I confess I do not observe that order that the Schools ordain our affections, to love our Parents, Wives, Children, and then our Friends; for excepting the injunction of Religion, I do not find in my felf fuch a necessary and indissoluble Sympathy to all those of my Blood. I hope I do not break the fifth Commandment, if I conceive I may love

my Friend before the nearest of my Blood, even those to whom I owe the Principles of life; I never yet cast a true affection on a Woman, but I have loved my friend as I do Vertue, my Soul, my God. From hence methinks I do conceive how God loves man, what happiness there is in the love of God. Omitting all other, there are three most myssical Unions; two Natures in one Person; three Persons in one Nature; one Soul in two Bodies. For though indeed they be really divided, yet are they so united, as they seem but one, and make ra-

ther a duality than two distinct Souls.

Sect. 6.

There are wonders in true affection; it is a Body of Enigma's, Mysteries and Riddles; wherein two to become one, as they both become two: I love my friend before my felf and yet methinks I do not love him enough: fome few Months hence my multiplyed affection will make me beleive have not loved him at all: when I am from him I am dead till I be with him-when Iam with him Iam not fatisfied but would fill be nearer hin . United Souls are not fatisfied with imbraces, but defire to be truely each other; which being impossible, their defires are infinite, and proceed without a possibility of satisfaction. Another misery there is in affection, that whom we truely love like our own feles, we forget their looks, nor can our memory retain the Idea of their Faces; and it is no wonder: for they are our felves, and our affection makes their looks our own. This noble affection falls not on vulgar and common constitutions, but on such as are mark'd for vertue: he that can love his Freind with this noble ardour, will in a competent degree affect all. Now if we can bring our affections to look beyond the Body, and castan Eye upon the Soul, we have found out the true object, not only of friendship, but Charity; and the greatest happiness that we can bequeath the Soul, is that wherein we all do place our last felicity, Salvation; which though it be not in our power to beflow, it is in our Charity, and pious invocations to defire, if not procure and fur-I cannot contentedly frame a Prayer for my felf in particular, without a Catalogue for my Freinds; nor request a happiness wherein my sociable disposition doth not defire the fellowship of my Neighbour. I never hear the Toll of a passing Bell, though in my mirth, without my Prayers and best withes for the departing Spirit: I cannot go to cure the Body of my Patient, but I forget my profession, and call unto God for his Soul : I cannot fee one fay his Prayers, but inthead of imitating him, I fall into Supplication for him, who perhaps is no more to me than a common nature: and if God hath vouchfafed an Ear to my supplications, there are ferely many happy that never faw me, and enjoy the bleffing of mine unknown devotions. To pray for Enemies, that is, for their Salvation, is no harth precept, but the practice of our daily and ordinary devocious. I cannot believe the story of the Italian; | our bad withes and unchantable defires proceed

no further than this Life; it is the Devil, and the uncharitable votes of Hell, that defire our mifery in the world to come.

To do no injury, nor take none; was a principle, which to my former years, and impatient affections, feemed to contain enough of Morality; but my more settled years, and Christian constitution, have Sect. 7. fallen upon severer resolutions. I can hold there is no such thing as injury; that if there be," there is no fuch injury as revenge, and no fuch revenge as the contempt of an injury; that to hate another, is to malign himself; that the tiu. It way to love another is I were unjust unto mine own Conscience, it I to despise our selves. should say I am at variance with any thing like my felf. I find there are many pieces in this one Fabrick of man; this frame is raifed upon a Mais of Antipathies: I am one methinks, but as the World; wherein not with standing there are a swarm of distinct bessences, and in them another world of contrarieties; we carry private and domestick Enemies within, publick and more hostile Adversaries without. The Devil, that did but buffet St, Paul, plays methinks at sharp, with me : Let me be nothing, if within the compass of my self, I do not find the Battel of Lepanto, Paffion against Reason, Reason against Faith, Faith against the Devil, and my Conscience against all. There is another man within me, that's angry with me, rebukes, commands, and dastards me. I have no Conscience of Marble, to refist the hammer of more heavy offences; nor yet too foft and waxen, as to take the impression of each single Peccadillo or scape of infirmity: I am of a strange belief, that it is as easie to be forgiven some tinst, as to commit some others. For my Original fin, I hold it to be washed away in my Baptisin; for my actual transgressions, I compute and reckon with God, but from my last repentance, Sacrament, or general absolution; and therefore am not terrified with the fins or madness of my Youth I thank the goodness of God, *I have no fins that want a name;] I am not fingular in offences, my transgressions are Epidemical, and from the common breath of our corruption. For there are certain tempers of Body, which matcht with an humorous depravity of mind, do hatch and produce vitioficies, whose newness and monstrosity of Nature admits no name; If this was the temper of that Lecher that carnal'd with a Status 7 * and constitution of Nero in his Spintrian recre-For the Heavens are not only fruitful in new and unheard-of Stars, the Earth in Plants and Animals, but mens minds also in vilany and vices: now the dulness of my reason, and the vulgarity of my disposition, never prompted my invention, nor sollicited my affection unto any of those; yet even those common and quotidian infirmities that so necessarily attend me, and do seem to be my very nature, have so dejected me, so broken the estimation that I should have otherwise of my felf, that I repute my felf the most abjectelt

piece of mortality: Divines prescribe a fit of sorrow to repentance; there goes indignation, anger, sorrow, hatred, into mine; passions of a contrary nature, which neither seem to sute with this action, nor my proper constitution. It is no breach of charity to our selves, to be at variance with our Vices; no rto abhor that par of us, which is an enemy to the ground of Charity, our God; wherein we do but imitate our great selves the World, whose divided Antipathies and contrary saces do yet carry a charitable regard unto the whole by their particular discords, preserving the common harmony, and keeping in setters those powers, whose rebellions once

I thank God, amongst those millions of Vices I do inherit and hold from Adam, I have escaped one, and that a mortal enemy to

Masters, might be the ruine of all.

Charity, the first and father sin, not only of man, but of the devil. Pride; a vice whose name is comprehended in a Monosvillable, but in its nature not circumscribed with a world; I have escaped it in a condition that can hardly avoid is those petry acquisitions and reputed perfections that advance and elevate the conceits of other men, add no feathers unto mine. * I have feen a Grammarian Towr and Plume himself over a single line in Horace,] and thew more pride in the construction of one Ode, than the Author in the composure of the For my own part, befides the Fargon and Paton of several Provinces, I understand no less than fix Languages; yet I protest I have no higher conceit of my felf, than had our Fathers. before the confusion of Babel, when there was but one Language in the World, and none to boast himself either Linguist or Critick. I have not only feen feveral Countries, beheld the nature of their Climes, the Corography of their Provinces, Topography of their Cities, but understood their several Laws, Customs and Policies; yet cannot all this perswade the dulness of my spirit unto such an o-

pinion of my self, as I behold in nimbler and conceited heads, that never looked a degree beyond their nests. I know the names and somewhat more of all the Constellations in my Horizon; yet I have seen a prating Mariner; that could only name the Pointers and the North-Star out-talk me, and conceit himself a whole Sphere above me I know meth of the Plants of my Country, and of those about me; yet methicks I do not know so many as when I did but know a hundred, and had scarcely ever Simpled further than Cheapside: for indeed, heads of capacity and schas are not full with a handful, or eatic measure of knowledge, think they know nothing till they know all, which being impossible, they fall upon the opinion of Socrater, and onely know they know not any thing. * I cannot think that Hinger pin'd away upon the Riddle of the Fisherman. or il that Aristetle, who understood the uncertainty of knowledge, and conses-

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Sect. 8.

ed so often the Reason of Man too weak for the works of Nature. did ever drown himself upon the flux and reflux of Euripus.] We do but learn to day, what our better advanced judgements will unteach to morrow; and Ariffetle doth not infired us, as Plato did him . that is, to confute himself. I have run through all forts, yet find no reft in any: though our first studies and junior endeavours may style us Peripateticks, Stoicks, or Academicks, ; yet I perceive the wifelt heads prove, at last, almost all Scepticks, and stand like Fanus in the Field of knowledge. I have therefore one common and authentick Philosophy I learned in the Schools, whereby I discourse and satisfie the reason of other men; another more reserved, and drawn from experience, whereby I content mine own. Solomon, that complain. ed of ignorance in the height of knowledge, hath not only humbled my conceits, but discouraged my endeavours. There is yet another conceit that hath sometimes made me shut my books, which tells me it is a vanity to waste our days in the blind pursuit of knowledge; it is but attending a little longer, and we shall enjoy that by instinct and infusion, which we endeavour all here by labour and inquisition: it is better to fit down in a modest ignorance, and rest contented with the natural bleffing of our own reasons, than buy the uncertain knowledge of this life, with sweat and vexation, which Death gives every fool gratis, and is an accessary of our glorification.

I was never yet once, and commend their resolutions, who never Sed. 9. marry twice; not that I disallow of second marriage: as neither in all cases of Polygamy, which considering sometimes, and the uncqual number of both Sexes, may be also necessary. The whole world was made for man, but the twelfth part of man for woman : Man is the whole world, and the Breath of God; Woman the Rib, and crooked piece of man. * I could be content that we might procreate like Trees] without conjunction, or that there were any way to perpetuate the world without this trivial and vulgar way of coition; it is the foolishest act a wife man commits in all his life, nor is there any thing that will more deject his cool'd imagination, when he shall consider what an odd and unworthy piece of folly he hath committed. I speak not in prejudice, nor am averse from that fweet Sex, but naturally amorous of all that is beautiful; I can look a whole day with delight upon a handsome Picture, though it. be but of an Horse. It is my temper, and I like it the better, to affect all harmony; and fure there is musick even in the beauty, and the filent note which Cupid arikes, far sweeter than the found of an Instrument : For there is Mufick where ever there is a Harmony , order or proportion; and thus far we may maintain the Mufick of the Sphears: for those well ordered motions, and regular paces, though they give no found unto the Ear, yet to the understanding they ftrike

strike a note most full of harmony. Whatsoever is harmonically com-

H Orbem Romum in principio Reges
babuere.

* Pro Archia
Poeta.
Il In qua me
mon inficior me
diocrites effe.

posed, delights in harmony; which makes me much distrust thesymmetry of those heads which declaim against all Church-Mulick. For my felf, not only from my obedience, but my particular genius, I do embrace it : for even that vulgar and Tavern-Mufick, which makes one man merry, another mad, ftrikes in me a deep fit of Devotion, and a profound contemplation of the first Composer, there is something in it of Divinity more than the Ear discovers: it is an Hieroglyphical and shadowed Lesson of the whole world, and Creatures of God, fuch a melody to the Ear, as the whole world well understood, would afford the understanding. In brief, it is a sensible fit of thatharmony, which intellectually founds in the Ears of God. I will not fay with Plato, the Soul is an harmony, but harmonical, and hath its nearest sympathy unto Musick: thus some whose temper of body agrees, and humours the conflicution of their Souls, are born Poets, though indeed all are naturally inclined unto Rhythme. | This made Tacitus in the very first Line of his Story, fall upon a Verse; and Cicero the worst of Poets, but * declaiming for a Poet, falls in the very first sentence up. on a perfe & I Hexameter. I feel not in me those fordid and unchristian defires of my profession : I do not secretly implore and wish for Plagues, rejoyce at Famines, revolve Ephemerides and Almanacks in expectation of malignant Aspects, fatal Conjunctions and Eclipses: I rejoyce not at unwholesome Springs, nor-unseasonable Winters: my Prayer goes with the Husbandman's : I defire every thing in its proper feason, that neither men nor the times be put out of temper. Let me be tick my felf, if sometimes the malady of my Patient be not a Disease unto me; I defire rather to cure his infirmities than my own necessities: where I do him no good, methinks it is scarce honest gain; though I confess tis but the worthy Salary of our well intended endeavours: I am not only ashamed, but heartily forry, that besides death, there are Dileafes incurable; yet not for my own fake, or that they be beyond my Art, but for the general cause and sake of humanity, whose common Caufe I apprehend as mine own: And to speak more generally, those three Noble Professions which all civil Common-wealths do homour, are raifed upon the fall of Adam, and are not any way exempt from their infirmities; there are not only Diseases incurable in Phyfick, but Cafes indiffolvable in Laws, Vices incorrigible in Divinity : if general Councils may err, I do not fee why particular Courts should be infallible; their perfectest rules are raised upon the erroneous reafons of Man; and the Laws of one, do but condemn the rules of another; as Aristotle oft-times the opinions of his Predecessors, because, though agreeable to reason, yet were not consonant to his own Rules and Logick of his proper Principles. Again, to speak nothing of the Sin against the Holy Ghost, whose cure not only, but whose nature

nature is unknown; I can cure the Gout or Stone in some, sooner than Divinity Pride, or Avarice in others. I can cure vices by Physick when they remain incurable by Divinity; and shall obey my Pills when they contemn their Precepts. I boaft nothing, but plainly fay, we all labour against our own cure; for death is the cure of all difeafes. There is no Catholicon or universal remedy I' know, but this, which though nauseous to queasie stomacks, yet to pre-

pared appetites immortality.

For my Conversation, it is like Suns, with all men, and witha Sect. 10. friendly afpect to good and bad. Methinks there is no man bad, and the worst, best; that is, while they are kept within the circle of those qualities, wherein there is good: There is no mans mind of such discordant and jarring a temper, to which a tunable disposition may not ftrike a harmony. Magne virtutes, nec minera vitia; it is the polie of the best natures, * and may be inverted on the worst ;] there are in the most depraved and venomous dispositions, certain pieces that remain untoucht, which by an Antiperistasis become more excellent, or by the excellency of their antipathies are able to preserve themselves from the contagion of their enemies vices, and perfift entire beyond the general corruption. For it is also thus in natures. The greatest Balsomes do lye enveloped in the bodies of the most powerful Corrosives; I say moreover, and I ground upon experience, * that poy fons contain within themselves their own Antitode,] and that which preserves them from the venom of themselves, without whichthey were not deletorious to others only, but to themselves also. But it is the corruption that I fear within me, not the contagion of commerce without me. 'Tis'that unruly regiment within me, that will defroy me; 'tis I rhat do infect my felf; If the man without a Navel yet lives in me; I feel that original Canker corrode and devour me; and therefore Defenda me Dies deme, Lord deliver me from my felf is a part of my Letany, and the first voice of my retired imaginations. There is no man alone, because every man is a Mierocosm, and carries the whole World about him: Nunquam minus folus quam cum folus, though it be the A pothegme of a wife man, is yet true in the mouth of a Fool; for indeed, though in a Wilderness, a man is never alone, not only because he is with himself, and his own thoughts, but because he is with the Devil, who ever conforts with our folitude, and is that unruly Rebel that musters up those disordered motions which accompany our sequestred imaginations: And to speak more narrowly, there is no fuch thing as folitude, nor any thing that can be faid to be alone, and by it felf, but God, who is in his own circle, and can subsist by himself; all others, besides their diffimilary and Heterogenous parts, which in a manner multiply their natures

tures, cannot subsist without the concourse of God, and the society of that hand which doth uphold their natures. In brief, there can be nothing truly alone, and by its self, which is not truely one; and such is only God: All others do transcend an unity, and so by conse-

quence are many,

eff. 11.

Now for my life, it is a miracle of thirty years, which to relate, were not a History, but a piece of Poetry, and would found to common ears like a Fable; for the world, I count it not an Inn, but an Hospital; and a place not to live, but to die in. The World that I regard is my felt; it is the Microcotm of my own frame that I caft mine eye on; for the other, I use it but like my Globe, and turn it round fometimes for my recreation. Men that look upon my outfide, perufing only my condition and Fortunes, do err in my Altitude; for I am above Atlas his shoulders. The earth is a point not only in respect of the Heavens above us: but of that Heavenly and Celeftial part within us : that mass of flesh that circumscribes meglimits not my mind: that surface that tells the Heavens it hath an end cannot perswade me I have any : I take my circle to be above three hundred and fixty; though the number of the Ark do measure my body, it comprehendeth not my mind: whilft I fludy to find how I am a Microcosm or little World, I find my self something more than the great. There is furely a piece of D. vinity in us, for ething that was before the Elements, and owes no homage unto the Sun. Nature tells me I am the Image of God, as well as Scripture: he that understands not thus much, hath not his introdu-Ction or first leffon, and is yet to begin the Alphabet of man. Let me not injute the telicity of others, if I fay I am as happy as any ; Ruat Calum, Fiat voluntas tua, falveth all; fo that whatfoever happens, it is but what our daily prayers defire. In brief; I am content, and what thould providence add more? Surely this is it we call happiness, and this do I enjoy, this I am happy in a dream, and as content to enjoy a happinefs in a fancy, as others in a more apparent truth, and reality. There is furely a nearer apprehention of any thing that delights us in our dreams, than in our waked fenfes; without this I were unhappy for my awaked judgment discontents me, ever whispering unto me, that I am from my friend; but my friendly dreams in then ght requite me, and make me think I am within his arms. I thank God for my happy dreams, as I do for my good reft, for there is a satisfaction unto reasonable desires, and such as can be content with a fit of happiness; and furely it is not amelancholy conceit to think we are all affeep in this world, and that th conceits of this life are as meer dreams to those of the next; as the Phantasms of the night, to the conceit of the day. There is an equal .

qual delution in both, and the one doth but feem to be the embleme or picture of the other; we are somewhat more than our selves in our fleeps, and the flumber of the body feems to be but the waking of the Soul. It is the ligation of fenfe, but the liberty of reason, and our waking conceptions do not match the Fancies of our fleeps. At my Nativity my Ascendant was the Earthly Sign of Scorpius; I was born in the Planetary hour of Saturn, and I think I have a piece of that Leaden Planet in me. I am no way facetious, nor disposed for the mirth and galliardize of company; yet in one dream I can compose a whole Comedy, behold the action, and apprehend the Jefts, and laugh my felf awake at the conceits thereof : were my memory as faithful as my reason is then fruitful, I would never study but in my dreams; and this time also would I chuse for my devotions: but our grosser memories have then so little hold of our abstracted understandings, that they forget the story.] and can only relate to our awaked Souls, a confused and brokentale of that that hath paffed. Aristotle, who hath written a fingular Tract of Sleep, hath not methinks throughly defined it; nor yet Galen, though he feem to have corrected it ; for those Nettambuloes and Night-walkers, though in their fleep, do yet enjoy the action of their fentes: we must therefore say that there is something in us that is not in the jurisdiction of Morpheus; and that those abstracted and ecstatick Souls do walk about in their own Corps, as Spirits with the Bodies they affume, wherein they feem to hear, and feel, though indeed the Organs are destitute of sense, and their natures of those faculties that should inform them. Thus it is observed, that men some. times upon the hour of their departure, do speak and reason above themselves. For then the Soul begins to be freed from the Ligaments of the body, begins to reason like her self; and to discourse in a strain above mortality.

We term fleep a death, and yet it is waking that kills us, and defitroys those Spirits that are the house of life. 'Tis indeed a part of life Sect. 12. that best expressed death; for every man truly lives, so long as he acts his nature, or someway makes good the faculties of himself: Themistocles therefore that slew his Souldier in his sleep, was a merciful Executioner; 'tis a kind of punishment the mildness of no Laws hath invented; "I wonder the fancy of Lucan and Seneca did not discover it.] It is that death by which we may be literally said to die daily; a death which Adam died before his mortality; a death whereby we live a middle and moderating point between life and death; In sine, so like death, I dare not trust it without my Prayers, and an half adieu unto the world, and take my farewel in a Colloquy with God.

The Night is come, like to the day; Depart not thou great God away. Let not my fins, black as the Night, Eclipse the Lustre of thy Light. Keep still in my Horizon; for to me The Sun makes not the day, but thie. Thou wh fe nature cannot fleep, On my Temples Centry keep; Guardme'gainst those watchful Foes, Whose Eyes are open while mine close. Let no Di eams my Head infeft, But such as Jacobs Temples bleft. While I do rest, my Soul advance; Make my fleep a Holy Trance : That I may, my rest being wrought, Awake into some boly thought. And with as active vigour run My course as dotb the nimble Sun. Sleep is a death, O make me try, By fleeping, what it is to die: And as gently lay my Head On my Grave, as now my Bed. Howere Ireft, great God, let me Awage again at leaft with thee. And thus affur'd, behold I lie Securely; or to make or die. These are my drowsie days; in vain I de now make to fleep again : O come that bour, when I shall never Sleep again, but make for ever.

This is the Dormative I take to bedward; I need no other Laudanum than this to make me sleep; after which I close mine Eyes in security, content to take my leave of the Sun, and sleep unto the Resurre-ction.

Sed. 13.

The method I should use in distributive Justice. I often observe in communicative; and keep a Geometrical proportion in both, whereby becoming equable to others, I become unjust to my self, and supercrogate in that common Principle, Do unto others as thou wouldst be done unto thy self; I was not born unto riches, neither is it, I think, my Star to be wealthy; or if it were, the freedome of my mind, and frankness of my disposition, were able to contradict and cross

cross my fates: for to me avarice seems not so much a vice, as a de. plorable piece of madness; * to conceive our selves Urinals, er be perswaded that we are dead, is not so ridiculous, I nor so many degrees beyond the power of Heliebore, as this. The opinions of Theory, and positions of men, are not so void of reason, as their practifed Conclutions: forme have held that Snow is black, that the Earth moves, that the Soul is Air, Fire, Water; but all this is Pailosophy, and there is no delirium, if we do but speculate the folly and disputable dotage of avarice to that subterraneous Idol, and God of the Earth. I do confess I am an Atheist, I cannot perswade my self to honour that the world adores; what soever vertue its prepared subflance within may have within my body, it hath no influence nor operation without: I would not entertain a base design, or an Action that should call me Villain, for the Ledies; and for this only do I love and honour my own Soul, and have methinks two Arms too few to embrace my felf. Aristotle is too severe, that will not allow us to be truly liberal without wealth, and the bountiful hand of Fortune; if this be true, I must confess I am charitable only in my liberal intentions, and bountiful well-wishes. But if the example of the Mite be not only an act of wonder, but an example of the noblest Charity, furely poor men may also build Hospitals, and the rich alone have not crected Cathedrals. I have a private method which others observe not; I take the opportunity of my self to do good; I borrow occasion of Charity from my own necessities, and supply the wants of others, when I am in most need my self; for it is an honest stratagem to make advantage of our selves, and so to husband the acts of vertue, that where they were defective in one circumstance, they may repay their want, and multiply their goodness in another. I have not Peru in my defires, but a competence and ability to perform those good works, to which he hath inclined my nature: He is rich, who hath enough to be charitable; and it is hard to be so poor, that a noble mind may not find a way to this piece of goodness. He that giveth to the poor, lendeth to the Lord , there is more Rhetorick in that one sentence, than in a Library of Sermons; and indeed if those sentences were understood by the Reader, with the same Emphasis as they are delivered by the Author, we needed not those Volumes of instructions, but might be honest by an Epitome. Upon this motive only I cannot behold a Biggar without relieving his necessities with my purse, or his Soul with my prayers; these scenical accidental differences between us, cannot make me forget that common and untoucht part of us both; there is under these Cantoes and miserable outsides, those mutilate and Semi-bodies, a foul of the same alloy with our own, whose Genealos

gy is Gods as well as ours, and in as fair a way to Salvation as our felves. Statists that labour to contrive a Common wealth without our poverty, take away the object of our charity, not understanding only the Common-wealth of a Christian, but forgetting the Prophetic of Christ.

Sect. 14.

Now there is another part of charity, which is the Basis and Pillar of this, and that is the love of God for whom we love our neighbour; for this Ithink Charity, to love God for himself, and our neighbour for All that is truely amiable is God, or as it were a divided piece of him, that retains a reflex or shadow of himself. it thrange that we should place affection on that which is invisible, all that we truly love is thus; what we adore under affection of our fenses, deserves not the honour of so pure a Title. Thus we adore Vertue, though to the Eyes of fense she be invisible : Thus that part of our noble Friends that we love, is not that part that we imbrace, but that sensible part that our Arms cannot embrace. God being all goodness, can love nothing but himself, and the traduction of his Let us call to affize the loves of our Parents, the affectie holy Spirit. on of our Wives and Children, and they are all dumb shews and dreams, without reality, truth or constancy : for first there is a throng Bond of affection between us and our Parents; yet how eafily dissolved? We betake our selves to a Woman, forget our Mother in a Wife, and the Womb that bare us, in that that shall bear our Image : this Woman bleffing us with Children, our affection leaves the level it held before, and finks from our Bed unto our Issue and Picture of Posterity, where affection holds no steady mansion. They, growing up in years, defire our ends; or applying them. selves to a Woman, take a lawful way to love another, better than our felves. Thus I perceive a man may be buried alive, and behold his Grave in his own iffue.

Sed. 15.

I conclude therefore and fay, there is no happiness under (or as Copernicus will have it, above) the Sum nor any Cramb in that repeated veri; and burthen of all the Wisdom of Solomon; All is vanity and vexation of Spirit; there is no selicity in that the world adores. Aristotle whilst he labours to resute the Idea's of Plato, falls upon one himself: for his summum bonum is a Chimera, and there is no such thing as Felicity. That wherein God himself is happy, the holy Angels are happy, in whose defect the Devils are unhappy; that dare I call happiness: whatsoever conduceth unto this, may with an easte Metaphor, deserve that name; whatsoever else the world terms Happiness, is to me a story out of Pling; an Apparition or neat Delusion, wherein there is more of Happiness,

Happiness, than the name. Bless me in this life with but Peace of my Conscience, command of my affections, thelove of thy selfand my dearest friends and I shall be happy enough to pity Cefar. These are, O Lord, the humble desires of my most reasonable ambition, and all I dare call Happiness on earth; wherein I set no rule or limit to thy Hand of Providence; dispose of me according to the wisdome of thy pleasure. Thy will be done, though in my own undoing.

FINIS.

Religio Medici.

Los P. Control of the control of the literation but the control of the control of

FNES

ANNOTATIONS

UPON

Religio Medici.

Nec satis est vulgasse sidem. Pet. Arbit. fragment,



LONDON,

Printed for Andrew Crook, 1672.

K 2



THE

ANNOTATOR

READER.

Gellius (noct. A rtic. l. 20. cap. ult.) notes some Books that had strange Titles; Pliny (Prefat. Nit. Hist.) speaking of some such, could not pass them over without a jeer; so strange (saith he) are the Titles of some Books, Ut multos ad vadimonium deferendum compellant. Aid Seneca saith, some such there are, Qui patri obstetricem parturienti sliw accercenti moram injicere possint. Of the same sate this present Tract Religio Medici hath partaken: Exception by some hath been taken to it in respect of its Inscription, which say they, seemes to imply that Physicians have a Religion by themselves, which is more than Theology doth warrant: but it is their Inserence, and not the Title that in to blame; for no more is meant by that, or endeavour'd to be prov'd in the Book than that (contrary to the opinion of the unlearned. Phisitians have Religion as well as other men.

For the work it self, the present Age hath produced none that hath had better Reception among it the learned; it hath been received and fostered by almost all, there having been but one that I knew of (to verific that Books have their Fate from the capacity of the Reader) that hath had the face to appear

The Annotator

dicus Medica-21.5.

* That he was a German

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wieth thefe

* In Prefat.

Amnotat.

words.

ezc.

* In his Me- against it; that is Mr. Alexander * Rosse; but he is dead. and it is uncomely to skirmish with his shadow. It shall be sufficient to remember to the Reader, that the noble and most learned Knight, Sir Keneline Digby, bas delivered his opinion of it in another fort, who though in some things he differ from the Authors lense, yet bath he most candidly and ingeniously allow'dit to be a very learned and excellent piece; and I think no Schollar will fay there can be an approbation more authentick. Since the time he Publified his Observations uponit, one Mr. Jo. Merryweather a Mafter of Arts of the University of Cambridge, bath deem'd it worthy to be put into the universal Language, which about the year 1644. he performed 3 and that bath carried the Authors name not only into the Low-Countries and France (in both which places the Book in Latin bath fince been printed but into Italy and Germany, & in Germany ithath fince fallen into the hands of a Gentleman of his notes pag that Nation * of his name he hath given us no more than L.N. . wherehe M.E.N. who hath written learned Annotat. uponit in Latine, which were printed together with the Book at Strafbourg 1652. Pulciffing nor And for the general good opinion the W orld bad entertained fles Germanis both of the Work and Author, this Stranger tells you: * Inter alios Auctores incidi in librum cui Titulus Religio Medici, jam ante mini innotuerat lectionem istius libri multes præclaros viros delectasse, imo occupasse. Non ignorabam librum in Anglia, Gallia, Italia, Belgio, Germania, cupidiffime legi; constabat mihi eum non solumin Anglia, Bata. via, fed& Parifis cum præ fatione, in qua Auctor magnis lau_ dibus fertureffe, Tipis mandatum Compertum mihi erat multos magnos atq; eruditos viros sensere Autorem (quantum ex hocscripto perspici potest) sanctitate vitæ ac pietate elucere, &c. But for the worth of the Book it is fo well known to every English-man that is fit to read it, that this attestation of a Forrainer may feem superfluous.

The German, to do him right, bath in his Annotations given a fair specimen of his learning shewing his skill in the Languages, as well antient as modern ; as also his asquaintance with all minner of Authors, both facred and profune, out of which he buth amas'd a world of Quotations : but yet, not to

menti-

to the Reader.

mention that he hath not observed some Errors of the Pres. and one or two main ones of the Latine Translation, whereby the Author is much injured; it cannot be denied but be bath pass'd over many hard places untouch'd, that might deserve a Note; that he hath made Annotations on some, where no sneed was ; in the explication of others bath gone besides he true sense. [And were he free from all these, yet one great Fault there is he may be justly charged with, that is, that became of manum de Tabula even in matters the most obvions : which is an affectation ill-becoming a Scholar; witnessthe mist learned traiteer, Claud. Minos. Divion, in præfat.commentar. Alciat. Emblemar, præfix Præstat (fait bhe) brevius omnia perse qui, & leviter attingere quæ nemini elle ignota suspicari possint, quam quasi falasar, perq ; locos communes identidem expitiari.

I go not about by finding fault with his obliquely to commend my own; I am as far from that, as' tis possible others will be: All I feek, by this Preface, next to acquainting the Reader, with the *Excepting various entertainment of the Book is that he would beadvertiz'd two or three that these Notes were collected ten years since, long before the Ger particulars in man's were written; so that I am no plagiary (as who peruseth his which reference is Notes & mine, willeafly perceive:) And in the second place, that made to Ismade this Recueil meerly for mine own entertainment, and not fome Books with any intention to evulge it; Truth is my witness, the publi- over fines cation proceeds merly from the importunity of the Book feller that time, (my special friend) who being acquainted with what I had done. and about to set out another Edition of the Book, would not be dented these notes to atte x to it; 'tis be (not I) that divulgeth it, and whatever the success be, he alone is concern'd in it; I only say for my self what my Annototions bear in the Frontis-Diece

Nec sa tis est vulgasse sidem. That is, that it was not enough to all persons (though pretenders to Learning) that our Phylitian had published his Creed, because he wanted an exposition. I say further, that the German's is not full; and that (Quicquid fum Ego quamvis Infra Lucillicensum ingeniumq; ----) my explications do in many things illustrate the Text of my Author.



ANNOTATIONS UPON RELIGIO MEDICI.

The Epistle to the READER.

CErtainly that man were greedy of, Life, who should desire to live when all the world were at an end; This Mr. Merry-weather hath rendred thus; Cupidum esse vitæ oportet, qui universo jam expirante mundo vivere cuperet; and well enough: but it is not amis to remember, that we have this saying in seneca the Tragedian, who gives it us thus, Vitæ est avidus

quisquis non vult mundo secum pereunte mori.

There are many things delivered Rhetorically.] The Author herein imitates the ingenuity of St. Austin, who in his Retract, corrects himself for having delivered some things more like a young Rhetorician than a sound Divine: but though St. Aug. doth deservedly acknowledge it a fault in himself, in that he voluntarily published such things, yet cannot it be so in this Author, in that he intended no publication of it, as he prosessed in this Epistle, and in that other to Sir Kenelm Digbr.



FIRS T PAR T.

He general scandal of my Profession. JPhysitians of the number Sect. 1.
wheros it appears by several passages in this Book the Authoris Pag. 1.
one) do commonly hear ill in this behalf. It is a common speech
but only amongst the unlearn'd fort) Ubi tres Medici, duo Athei.

The reasons whythose of that Profession (I declare my self that I am none, but Causarum Actor Mediocris, to use Horace his Phrase) may be thought to deserve that censure, the Author rendreth Sect. 19.

The natural course of my studies.] The vulgar lay not the imputation of Atheism only upon Physitians, but upon Philosophers in general, who for that they give themselves to understand the operations of Nature, they calumniate them, as though they rested in the second Caufes, without any respect to the first. Hereupon it was, that in the tenth Age. Pope Silvester the second pass'd for a Magician, because he understood Geometry and natural Philosophy. Baron. Annal. 990. And Apuleius long before him laboured of the fame suspicion. upon no better ground; he was accus'd and made a learned Apology for himlelf, and in that hath laid down what the ground is of such accusations, in these words: Hacferme communi quodam errore imperitorum Philosophis objectantur, ut partem corum qui corporum causas meras simplices rimantur, irrelegioses putant, coque aiunt Deos abnuere, ut Anaxagoram, & Lucippum, & Democritum, & Epicurum, caterofq; rerum nature Patrones. Apul. in Apolog. And it is possible that those that look upon the second Causes scattered, may rest in them and go no further, as my Lord Bacon in one of his Essayes observeth; but our Author tells us there is a true Philosophy, from which no man becomes an Atheift. Sed. 46.

The indifference of my behaviour and Discourse in matters of Religion.]

Bigots ate so oversway'd by a preposterous Zeal, that they hate all moderation in discourse of Religion; they are the men forsooth—quisoles credant babendos esse Dees quos ipsi colunt. Erasmus upon this accompt makes a great complaint to Sir Tho. More in an Epistle of his touching one Dorpius a Divine of Lovain, who because, upon occation of discourse betwint them, Erasmus would not promise him to

write against Luther, told Erasmus that he was a Lutheran, and afterwards published him for such; and yet as Erasmus was reputed no ve-

ry good Catholique, fo for certain he was no Protestant.

Not that I meerly owe this Title to the Font] as most do, taking up their Religion according to the way of their Ancestors; this is to be blamed amongst all Persons; It was practised as well amongst Hea-

Per caput hac im

Per caput boc juro per quod Pater antè solebat, saith Ascanius in Virgil: and Apuleius notes it for an absurdity. Usrum Philosopho putas surpe scire ista, an nescire? negligere, an curare? nosse quanta sit esiam in itis providentia ratio, an de diu immortalibus Matri & Patri cedere? saith he in Apolog: and so doth Minutius. Unusquisq vestrum non cogitat prius se debere deum nosse quam colere, dum inconsulte gestiuntur patentibus obedire dum sieri malunt alieni errores accessio, quam sibi credere. Minut. in Octav.

But having in my ripers examined &c] according to the Apollolical

Precept, Omnia probate, quod bonum est tenete.

There being a Geography of Religions] i.e. of Christian Religion, which you may see described in Mr. Breremoods Enquiries: he means not of the Protestant Religion; for though there be a difference in Discipline, yet the Anglican, Scotic, Belgie, Gallican, and Helvetic Churches differ not in any essential matter of the Doctrine, as by the Harmony of Confessions appears. 5. Epist. Theod. Beze Edmundo Grindallo Ep. Londinens.

Wherein I dislike nothing but the Name] that is, Lutheran, Colvinist,

Zuinglian, &c.

Now the accidental occasion wherein, &c.] This is graphically described by Thuanus in his History : but because his words are too large tor this purpose. I shall give it you somewhat more briefly, according to the relation of the Author of the History of the Council of Trent, The occasion was the necessity of Pope Leo the Tenth, who by his profufion had exhausted the Treasure of the Church, that he was constrained to have recourse to the publishing of Indulgences to raise monies: some of which he had destined to his own Treasury, and other part to his Allyes, and particularly to his Sifter he gave all the money that should be raised in Saxony; and she, that she might make the best profit of the Donation, commits it to one Aremboldus, a Bishop to appoint Treasurers for these Indulgences. Now the custom was, that when soever these Indulgences were sent into Saxony, they were to be divulged by the Fryars Eremites, (of which Order Luther then was) but. Aremboldus his Agents thinking with themselves, that the Fryars Eremites were so well acquainted with the trade, that if the business should be left to them, they should neither be able to give so good an account of their Negotiation, nor yet get fo much themselves by it as they might

Sed. 2. Pag. 1.

might do in case the business were committed to another Order; they thereupon recommend it to (and the business is undertaken by) the Dominican Fryars, who performed it so ill, that the scandal arising both from thence, and from the ill lives of those that set them on work, stirred up Luther to write against the abuses of these Indulgences; which was all he did at first; but then, not long after, being provoked by some Sermons and small Discourses that had been published against what he had written, he rips up the business from the beginning, and publishes xcv. Thefes against it at Wittenburg. Against these Tekel a Dominican writes; then Luther adds an explication to his. E chius and Prierius, Dominicans, thereupon take the controversie against him: and now Luther begins to be hot; and because his adversaries could not found the matter of Indulgences upon other Foundations than the Popes power and infallability, that begets a disputation betwixt them concerning the Popes power, which Lutber infifts upon as inferiour to that of a general Council; and so by degrees he came on to oppose the Popish Do-Ctrine of Remission of sins, Penances, and Purgatory; and by reason of Cardinal Cajetans imprudent mannagement of the conference he had with him, it came to pass that he rejected the whole body of Popish do-So that by this we may see what was the accidental occasion wherein, the flender means whereby, and the abject condition of the person by whem, the work of Reformation of Religion was set on foot.

Tet I bave not so shaken bands with those desperate Resolutions, (Resol- Sect. 3. vers it (hould be, without doubt) who had rather venture at large their Pag. 2. decayed Bottom, than bring ber in to be new trimm'd in the Dock: who bad rather promiscously retain all, than abridge any; and obstinately be what they are, than what they have been as to stand in deamiter and at Swords point with them : we have reformed from them, not against the m, &c. 7 These words by Mr. Merryweather are thus rendred, fc. Nectar men in vecordem illum pertinacium bominum gregem memet adjungo, qui labefactatum navigium malunt for tune, committere quam in navale de integro resarciendum deducere; qui malunt omnia promiscue retinere quam quicquaminde diminnere, & pertinaciter effe qui funt quam qui olim fue. runt, ita ut iisdem ex diametro repuguent : ab illis, non contra illos, reformationem instituimus, &c. And the Latine Annotator fits down very well satisfied with it, and hath bestowed some notes upon it; but under the favour both of him and the Translator, this Translation is so far different from the sense of the Author, that it hath no sense in it; or if there be any conftruction of sense in it, it is quite befides the Authors meaning; which will appear if we confider the context, by that we shall find that the Author in giving an account of his Religion, tells us first that he is a Christian, and farther, that he is of the reform'd Religion; but yet he faith, in this place, he is not so rigid a Protestant, nor at defiance with Papists so far, but that in many

things he can comply with them, (the particulars he afterwards mentionsin this Section) for, faith he, we have reform'd from them not against them, that is, as the Archbishop of Canterbury against the Tesnit difcourseth well, We have made no new Religion nor Schism from the old; but in calling for the old, and defiring that which was novel and crept in might be rejected, and the Church of Rome refusing it, we have reform'd from those upstart novel Doctrines, but against none of the old: and other fense the place cannot bear; therefore how the Latine Annotator can apply it as though in this place the Author intended to note the Anabaptists, I see not, unless it were in respect of the exe pression Vecordem pertinacium bominum gregem, which truly is a description well befitting them, though not intended to them in this place & howfoever, I fee not any ground from hence to conclude the Author to be any whit inclining to the Bulk of Popery (but have great reafon from many passages in this Book to believe the contrary,) as he that prefix'd a Preface to the Parisian Edition of this Book hath unwarrantably done.

But for the mistake of the Translator, it is very obvious from whence that arose. I doubt not but it was from mistake of the sense of the English Phrase Shaken hands, which he hath rendred by these words, Memet adjungo, wherein he hath too much play'd the Scholar, and shew'd himself to be more skilful in forraign and antient customs, than in the vernacular practise and usage of the language of his own Country; for although amongst the Latines protention of the Hand were a Symbole and sign of Peace and Concord (as Alex. ab Alexandro; Manum vero protendere, pacem peti significabant (saith he) Gen. Dier. lib. 4. cap. ult. which also is confirmed by Cicero pro Dejotaro; and Cafar. 1. 2. de Bellico Gallico) and was used in their first exectings, as appears by the Phrase, Jungere bespitio Dextras; and by that of Vir-

gil,

Oremus pacem, & Dextras tendamus inermes.

And many like passages that occur in the Poets, to which I believe the Translator had respect: yet in modern practice, especially with us in England, that ceremony is used as much in our Adieu's as in the first Congresse; and so the Author meant in this place, by saying he had not shaken bands; that is, that he had not so deserted, or bid sarewel to the Romanists, as to stand at Swords point with them: and then he gives his Reasons at those words, For omitting those improperations, &cc. So that instead of memeradjungo, the Translator should have used some Word or Phrase of a clean contrary signification; and instead of ex diametrorepugnent, it should be repugnem.

Henry the Eighth, though he rejected the Pope, refused not the Sect. 5. faith of Rome.] So much Buchanan in his own life written by him-Pag. 3. felf testifieth, who speaking of his coming into England about the latter end of that Kings time, saith, Sed thi tum omnia adeo erant incerta, ut eodem die, ac eodem igne (very strange!) utriusque factionis homines cremarentur Henrico 8. jim seniore sua magnis securitati quam Religinim puritati intento. And for the confirmation of this affertion of the Author, vide Stat. 31. H. 8. cap. 14.

And was conceived the State of Venice would have attempted in our dayes. This expectation was in the time of Pope Paul the Fifth, who by excommunicating that Republique, gave occasion to the Senate to banish all such of the Clergy as would not by reason of the Popes command administer the Sacraments; and upon that account the Je-

fuits were cast out, and never fince receiv'd into that State.

Or be angry with his judgement for not agreeing with me in that, from which perhaps within a few days I hould differt my self. I cannot think but in this expression the Author had respect to that of that excellent French Writer Monsieur Mountaign (in whom I often trace him.) Combien diversement jugeons nous de choses? Combien de fois changeons nous ness fantasses? Ce que je tieu aujourdhuy, ce que je croy, je le tien & le croy de toute ma Creance, mais ne m'st il pas advenu nou une fois mais cent, mais mille & tous les jours d'avoir embrasse quieque autre

chofe? Mountaign liv. 2. Des Effais, Chap. 12. Every man is not a proper Champion for truth, &c.] A good cause is never betray'd more than when it is profecuted with much cagerness, and but little fufficiency; and therefore Zuinglius, though he were of Caroloft adius his opinion in the point of the Sacrament of the Eucharist against Luther, yet he blamed him for undertaking the defence of that Cause against Luther; not judging him able enough for the encounter: Non fatis habet humerorum, faith he of Caroloftad, alluding to that of Horace, Sumite materiam vestris qui scribitis aquam Viribus, & versate din quid ferre recusent Quid valeant bumeri. - So Minutius Falix; Plerumg, pro differentium viribus, & eloquentia potestate, etiam perspicue veritatis conditie mutetur. Minut, in Octav. And Lactantius faith, this truth is verified in Minutius himself : for Him, Tertullian and Cyprian, he spares not to blame (all of them) as if they had not with dexterity enough defended the Christian cause against the Fthnicks. Lactant. de justitia, cap. 1. I could with that those that succeeded him had not as much cause of complaint against him: surely he is noted to have many errors contra fidem.

In Philosophy —— there is no man more Paradoxical then my self, but in Divinity I love to keep the Road, &c.] Appositely to the mind of the Author, saith the Publisher of Mr. Pembel's Book de origine formarum, Gerre (saith he) in locis Theologic is ne quid detrimenti capiat

vel Pax, vel Veritas Christi—— a novarum opinionum pruvitu prorsus abstinendum puto, usq, adeo ut ad certam regulam etiam loqui debeamus, quod pie & prudenter monet Augustinus (de Civ. Dei, 1.10 cap. 23.) [ne verborum licentia impia vi gignat opinionem,] at in pulvere Scholastico in nullius verba juramus, & in utramvis partem sine dispondio vel pacis, vel salutis ire licest, major conceditur cum sentiendi tum loquendi libertas, &c. Capet. in Ep. Dedicat. Pembel, de origine form. prasix.

Heresies perish not with their Authors, but like the River Arethusa, though they lose their currents in one place, they rise again in another.] Who would not think that this expression were taken from Mr. Mountaigne, pl. 2. des Ess. cav. 12. Where he hath these words, Nature enserve dans les termes de son progress ordinaire comme toutes autres choses aussi les creances les jugements & opinions des hommes elles ont leur revolutions; and that Mountaigne took his from Tully. Non enim hominum inveritus sententia quoque occidunt. Tull, de nat. deorum l. &c. Of the River Arethusa thus Seneca. Videbis celebratissimum carminibus sontem Arethusam limpidissimi ac perludicissimi ad imum stagni gelidissimas aquas profundentem, sive illas primum nascentes invenit, sive slumen integrum subter tot maria, & a confusione pejoris unda servatum reddidit. Senec. de consolat. ad Martiam.

Sed. 7. Pag. 5.

Now the first of mine was that of the Arabians.] For this Herefie, the Author here she weth what it was ; they are called Arabians from the place where it was fostered; and because the Herefiarch was not known, Euseb. St. Aug. and Nicephorus do all write of it : the reafon of this Herefie was fo specious, that it drew Pope John 22. to be of the same perswasion. Where there then was his infallibility? Why, Bellarmine tells you he was nevertheless infallible for that : for, faith he, he maintained this opinion when he might do it without peril of Heresie, for that no definition of the Church whereby 'twas made Herefie, had preceded when he held that opinion. Bellar. 1. 4. de Pontif. Roman, caf. 4. Now this definition was first made ('tis true) by Pope Benedict in the 14 Age: but then I would ask another question, that is, if till that time there were nothing defined in the Church touching the beatitude of Saints? what certainty was there touching the fanctity of any man? and upon what ground were those canonizations of Saints had, that were before the 14. Age?

The second was that of Origen Besides St. Augustine, Epiphanius, and also St. Hierom, doth relate that Origen held, that not only the Souls of men, but the Devils themselves should be discharged from torture after a certain time: but Genebrand endeavours to clear him

of this Vid. Coquaum, in 21, lib. Aug. de Civ. Dei. c. 17.

These opinions though condemned by lawful Councils, were not Heresie in me, &c] For to make an Heretique, there must be not only Error in intellectu, but pertinacia in voluntate. So St. Aug. Qui sententiam

(xam

suam quamvis falsam atque perversam nulla pertinaci animositate defendunt, querunt autem cauta folicitudine veritatem, corrigi parati cum invenerint, nequaquam funt inter Hæreticos deputandi. Aug. cont. Manich. 24 qu. 3

The deepest mysteries that ours contains have not only been illustrated. Sect 9. but maintained by Syllogism and the Rule of Reason.] and since this P.g. 6.

Book was written, by Mr. White in his Institutiones Sacre.

And when they have feen the red Sea, doubt not of the miracle. I Those that have feenit, have been better informed then Sir Henry Blount was, for he tells us that he defired to view the passage of Moses into the Red Sea (not being above three days journey off) but the Fews told him the precise place was not known within less than the space of a days journey along the shoar; wherefore (faith he) I left that as too uncertain for any observation. In his voyage into the Levant.

I had as lieve you tell me that anima eft angelus hominis, est corpus Pag. 7. Dei, as Entelechia ; Lux eft umbra Dei, as actus perspecui. [Great variety of opinion there hath been amongst the antient Philotophers touching the definition of the Soul, Thales, his was, that it is a Nature without Repose. Asclepiades, that it is an Exercitation of sence: Hefiod, that it is a thing composed of Earth and Water ; Parmenides holds, of Earth and Fire; Galen, that it is Heat; Hippocrates, that it is a Spirit diffused through the body : some others have held it to be Light; Plato faith, 'tis a Substance moving it felf; after cometh Aristatle (whom the Author here reproveth) and goeth a degree farther, and faith it is Entelechia, that is, that which naturally makes the body to move. But, this definition is as rigid as any of the other; for this tells us not what the effence, origine or nature of the Siml is, but only marks an effect of it, and therefore fignifieth no more than if he had faid (as the Author's Phrase is) that it is Angelus bominis, or an Intelligence that moveth man, as he supposed those other to do the Heavens.

Now to come to the definition of Light, in which the Author is also unsatisfied with the School of Aristotle, he faith, it sarisfieth him no more to tell him that Lux eft actus perspicui, than if you should tell him that, it is umbra Dei. The ground of this definition given by the Perepateticks, is taken from a paffage in Aristot. de animal 2.cap.7. where Aristotle faith, that the colour of the thing feen, doth move that which is perspicuum aciu (i.e. illustratum naturam que fit in sere aliove corpore transparente) and that that, in regard of its continuation to the Eye, moveth the Eye, and by its help the internal fenforium; and that so vision is perform'd. Now as it is true that the Sectators of Aristotle are too blame, by fastening upon him by occasion of this passage, that he meant that thole things that made this impress upon the Organs are meer accidents, and have notking of substance; which is more than ever he meant,

meant, and cannot be maintained without violence to Reason, and his own Principles; so for Aristotle himself, no man is beholding to him for any Science acquired by this definition: for what is any man the near for his telling him that Colour(admiting it to be a body, as indeed it is, and in that place he doth not deny) doth move actu perspicuum, when as the perspecuity is in relation to the Eye; and he doth not say how it comes to be perspicuous, which is the thing enquired after, but gives it that donation before the Eye hath persorm'd its office; so that if he had said it had been umbra Dei, it would have been as intelligible, as what he hath said. He that would be satisfied how Vision is persorm'd, let him see Mr. Hobbs in Traci. de nat. buman. cap. 2.

For God bath not caused it to rain upon the Earth. St. Aug. de Genes. ad literam, cap. 5, 6. salves that expression from any inconvenience; but the Author in Psindodox. Epidemic. 1. 7. cap. 1. shews that we

have no reason to be confident that this Fruit was an Apple.

I believe that the Serpent (if me shall literally understand it) from his proper form and figure made his motion on his Belly before the Curse. Yet the Author himself sheweth in Pseudodox. Episemic. lib. 7. cap. 1. that the form or kind of the Serpent is not agreed on: yet Comestor assiming it was a Dragon, Eugubinus a Bislisk, Delrio a Viper, and others a common Snake: but of what kind soever it was, he sheweth in the same Volume, lib. 5. c. 4. that there was no inconvenience, that the temptation should be personned in this proper shape.

I find the tryal of Pucelage and Virginity of Women which God ordained the Jews, is very fallible; Locus extat, Deut. c. 22. the

same is affirm'd by Laurentius in his Anatom.

Whole Nations have escaped the curse of Child-birth, which God seems to pronounce upon the whole Sex.] This isattested by M. Montainge Lesdoleurs de l'enfantiment par les medicines, & pardeiu mes meesti mes grandes, & que nous pasons avec tant de Ceremonies, ily a des nations autieres qui ne'n suit autient de la la E. T.

entieres qui ne'n fuit nul conte.l. 1. des Esf. c. 14. Who can speak of E ernity without a Solæcism, or think thereof without

an Extasse? Time we may comprehend &c.] Touching the difference betwixt Eternity and Time, there have been great disputes amongst Philosophe is stome affirming it to be no more than duration perpetual confisting of parts; and others (to which opinion, it appears by what follows in this Section, the Author adheres) affirmed (to use the Authors Phrase) that it hath no distinction of Tenses, but is according to Boetius (lib. 5. consol. pros. 6.) his definition, interminabilis vita tota simul & perfects possession. For me, non nostrum est tantas componere lites: I shall only observe what each of them hath to say

against the other. Say those of the first copinion against those that follow Beetins his definition, That definition was taken by Beetins

S. Ct. 11. Pag. 8. out of Plato's Timens, and is otherwise applyed, though not by Boetius, yet by those that follow him, then ever Plato intended it; for he did not take it in the Abaract, but in the Concrete, for an eternal thing, a Divine substance, by which he meant God, or his Anima m undi : and this he did, to the intent to establish this truth, That no mutation can befal the Divine Majesty, as it doth to things subject to generation and corruption; and that Plate there intended not to define or describe any species of duration : and they say that it is impossible to understand any such species of duration that is (seconding to the Authors expression) but one permanent point,

Now that which those that follow Boetius urge sgainst the other definition is, they fay, it doth not at all difference Eternity from the nature of Time; for they say if it be composed of many Nunc's, or many instants, by the addition of one more it is still encreased; and and by that means Infinity or Eternity is not included, nor ought more than Time. For this, fee Mr. White, de dial. mundo, Dial 3.

Nod. 4.

Indeed be only is, &c.] This the Author infers from the words of Sell. 12. God to Mofes, I am that I am; and this to diftinguish him from all others, who (he faith) have and shall be : but those that are learned in the Hebrem, do affirm that the words in that place (Exod. 3.) do not fignifie, Ego sum qui sum, & qui eft, &c. but Ero qui ero, &

qui erit, &c. vid. Gaffend. in animad. Epicur. Physiolog.

I wonder how Aristotle could conceive the World Eternal, or how he could make two Eternities:] (that is, that God; and the World both were eternal.) I wonder more at either the ignorance or incogitancy of the Conimbricanses, who in their Comment upon the eighth book of Aristotles Physicks, treating of the matter of Creation, when they had first said that it was possible to know it, and that actually it was known (for Ariftotle knew it) yet for all this; they afterwards affirm, that confidering only the light of Nature, there is nothing can be brought to demonstrate Creation ; and yet farther, when they had defined Creation to be the production of a thing ex nibilo and had proved that the World was so created in time, and refused the Arguments of the Philosophers to the contrary; they added this, that the World might be created ab aterno : for having propos'd this question [Num aliquid a Deo ex Eternitate procreari potnit?] they defend the affirmative, and affert that not only incocporcal substances, as Angels ; or permanent, as the celestial Bodies ; or corruptible as Men, &c. might be reduced and made ab eterno, and be conserved by an infinite time, ex strag, parte ; and that this is neither repugnant to God the Creator, the things created, nor to the nature of Creation: for proof whereof, they bring inftances of the Sun, which if it had been eternal, had illuminated eternally, (&the vertue of God is not less than the vertue of

the Sun.) Another instance they bring of the divine Word, which was produc'd ab eterno: in which discourse, and in the instances brought to maintain it, it is hard to say whether the madness or impiety be greater; and certainly if Christians thus argue, we have the more reason to

pardon the poor heathen Aristotle.

There is not three, but a Trinity of Souls. The Peripatetiques held thatmen had three distinct Souls; whom the Heretiques, the Anomai, and the Jacobites, followed. There arose a great dispute about this matter in Oxford, in the year 1276. and it was then determined against Aristotle. Danens Christ. Etb. 1. 1. c. 4. and Suarez in his Treatise de causa formali, Quest. An denter plures frame in uno composito, affirment there was a Synod that did anathematize a. I that held with Aristotle in this point.

Sed . 14. Pag. 11.

There is but one first, and four second causes in all things. In that he saith there is but one first cause, he speaketh in opposition to the Manichees, who held there were Duo principia; one from whom came all good and the other from whom came all evil: the reason of Protagras did it seems impose upon their understandings; he was wont to say, Si Deus nonest, unde igitur bona? Si autem est, unde mala? In that he saith there are but sour second Causes, he opposeth Plaso, who to the sour causes, material, efficient, formal, and final, adds for a fifth exemplar or idea, so. Id ad quod respiciens artifex, id quod destinabat, efficit; according to whose mind Bretius speaks, lib. 3. met. 9. de cons. Philosoph

O qui perpetua mundum ratione gubernas,
Terrarum Cæliq; sator, qui tempus ad evo
Ire jubes, stabilisq; manens das cuncta moveri:
Quem non externe pepulerunt singere cause
Materia sluitantis opus, verum insita summi
Forma boni livore carens: tu cuncta superno
Ducis ab exemplo, pulchrum pulcherrimus ipse
Mundum mente gerens similique in imagine formans,
Perfectasq; jubens perfectum absolvere partes.

And St. Augustine 1, 83, quest. 46. where (amongst other) he hath these words, Restatergo int omnia Ratione sint condita, nec eadem ratione bomo qua equus; boc enin absurdum est existimare: singula autem propriis suut creata rationibus. But these id a Plato's Scholar Aristotle would not allow to make or constitute a different sort of cause from the formal or efficient; to which purpose he disputes, 1. 7. Metaphysic. but he and his Schators, and the Romists also, agree (as the Author) that there are but the four remembred Causes: so that the Author, in affirming there are but sour, hath no Adversary but the Platonists; but yet in affirting there are four (as his words imply) there are that oppose

oppose him, and the Schools of Ariffor, and Ramus. I shall bring for instance Mr. Nat. Carpenter, who in his Philosophia Libera affirmeth there is no such cause as that which they call the Final cause: he argueth thus; Every cause hath an influence upon its effect: but so has not the End, therefore it is not a cause. The major proposition (he faith) is evident, because the influence of a cause upon its effect. is either the causality it self, or something that is necessarily conjouned to it: and the minor as plain, for either the End hath an influence up on the effect immediately, or mediately, by thirring up the efficient to operate; not immediately, because so it should enter either the constitution or production, or conservation of the things; but the constitution it cannot enter, because the constitution is only of matter and form; nor the Production, for so it should concur to the production, cither as it is fimply the end, or as an exciter of the efficient; but not timply as the end, because the end as end doth not go before, but followeth the thing produced, and therefore doth not concur to its production: if they fay it doth so far concur, as it is defired of the agent or efficient cause, it should not so have an immediate influence upon the effect, but should only first move the efficient. Lastly, faith he, it doth not enter the confervation of a thing, because a thing is often conserved, when it is frustrate of its due end, as when it's converted to a new use and end. Divers other Arguments he hath to pro ve there is no fuch Caufe as the final Caufe. Nat. Carpenter Philosoph. liber, Decad 3. Exercitat. 5. But for all this, the Author and he differ not in fubflance: for 'tis not the Authors intention to affert that the end is in nature præexissent to the effect, but only that whatsoever God has made, he hath made to some end or other; which he doth to oppose the Secators of Epicurus, who maintain the contrary, as is to be feen by this of Lucretius which follows.

Illud in bis rebus vitium vehementer & istum Essugere errorum, vitareque præmeditator, Lumina ne facias oculorum clara creata Prospicere ut possimus; & ut proferre viri Proceros passus, ideo fastigia posse Surarum ac feminum peditus sundata plicari: Brachia tum porro validis ex apta lacertis Esse, manusq; datas utraq, ex parte ministras, Us facere ad vitam possimus, quæ foret usus: Catera de genere boc, inter quæcunq; precantur Omnia perversa præpostera sunt ratione: Nil ideo quoniam natum st, in corpore ut uti Possemus; sed quod natum st, id procreat usum, Nec suit ante videre oculorum lumina nata,

Annotations upon

Nec dicin orare prins, quam lingua creata'st, Sed potius longe lingua pracessit origo Sermonem; multoq; creata sunt prins aures Quam sonus est auditus, & omnia deniq; membra Ante suere, ut opinor, eorum, quam fores usus: Haud igitur potuere utendi crescere causa.

Lucret. lib. 4.

Sed. 15. Pag. 64. There are no Grows ques in nature, &c.] So Mons. Montaign. Il ny 'arien d' mutil en nature, non pas l' inutilite mesmes, Rieu ne s'est jugere en cet Univers que n'y tienne place opportun. Ess. 1. 3. c. 1.

Who admires not Regio-montanus bis Fly beyond bis Eagle?] Of these Du Bartas.

Que diray je de l'aigle.

D'ont un doli Aleman bonore nostre siecle Aigle qui deslogeant de la maistresse main, Aila loin au devant d'un Empereur Germain; Et l'ayant recontre, suddain d'un e aisse accorte, Se tournant le suit au sue il de la porte Du fort Norembergois, que lis piliers dorez, Les tapissez chemins, les ares elabourez, Les fourdroyans Canons, in la jeusnesse inclie, In le chena Senat, u' bonnoroit tant come elle. Un jour, que cetominer plus des esbats, que de mets, En prive, fasteyoit ses seignieurs p'us amees, Une mousche de fer, dans sa main recelee, Pritsans ayde d'antroy, sa gallard evolee: Fit une entière Ronde, & puis d'un cerveau las Come ayant jugement, se purcha sur son bras.

Thus Englished by Silvefter.

Why should not I that wooden Eagle mention?
(A learned German's late admir'd invention)
Which mounting from his Fist that framed her,
Flew far to meet an Almain Emperour:
And having met him, with her nimble train,
And weary Wings turning about again,
Followed him close unto the Castle Gate
Of Novemberg; whom all the showes of state,
Streets hang'd with Arras, Arches curious built,
Loud thundring Canons, Column richly guilt,

Gray beaded Senat, and youth's gallantife, Grac'dnot fo much as only this device. Once asthis Artist more with mirth than meat, Feasted some friends that be esteemed great; From under's band an Iron Fly flow out, Which having flown a perfect round about. With weary wings, return'd unto ber Mafter, And (as jud cious) on bis arm she placed ber.

Or wonder not more at the operation of two fouls in those little bodies, than butone in the Trunk of a Cedar?] That is, the vegetative, which according to the common opinion, is supposed to be in Trees, though the Epicures and Stoicks would not allow any Soul in Plants; but Empedicles and Plato allowed them not only a vegetative Soul, but affirm'd them to be Asimals. The Manichees went farther, and attributed so much of the rational Soul to them, that they accounted it Homicide to gather either the Flowers or Fruit, as St. Aug. reports.

We carry with us the wonders we feek without us. 780 St. Aug. 1. 10. de civ. c. 3. Omni miraculo quod fit per bominem majus miraculum est

Another of his servant Nature, that publick and universal Manuscript Sect. 14. that lies expansed, &c. [So is the description of Du Bartas 7. jour de Pag. 64 . la seput.

Oyes de Docteur muet eff udie en ce livre Qui nuici & jour ouvert i' apprendra de bien vivre.

All things are artificial, for Nasure is the Art of God.] So Mr Hobbes in his Leviathan (in initio) Nature is the Art whereby God

governs the world.

Directing the operations of fingle and individual Effences, &c.] things Sed. 17. lingular or individuals, are in the opinion of Philosophers not to be known, but by the way of sense, or by that which knows by its Essence, and that is only God. The Devils have no such knowledge, because whatsoever knows so, is either the cause or effect of the thing known; whereupon Averrees concluded that God was the cause of all things, because he understands all things by his effence; and Albertus Magnus concluded that the inferiour intelligence understands the superiour, because it is an effect of the superiour : but neither of these can be said of the Devil; for it appears he is not the effect of any of these inferiour things, much less is he the cause; for the power of creation only belongs to God.

All cannot be happy at once, because the glory of one State dependes upon the ruine of another.] This Theme is ingeniously handled by Mr Montaign livr. 1. des Eff. cap. 22. The Title whereof is, L.

profit de l'un est dommage de l'autre.

Sett. 18. P.g. 14.

Tis the common fate of men of fingular gifts of mind, to be destitute of those of Fortune. So Petron. Arbiter. Amor ingenii neminem unquam divitem fecit, in Satyric. And Apuleius in Apog. Idem mibi etiam (faith he) paupertatem opprobravit acceptum Philosopho crimen & ultro profitendum; and then a little afterwards, he sheweth that it was the common fate of those that had fingular gifts of mind: Eadem enim est paupertas apud Gracos in Aristide justa, in Phocione benigna, in Epaminonda strenua, in Socrate sapiens, in Homero diserta. We need not labour with fo many arguments to confute judicial Altrology. There is nothing in judicial Afrology that may render it impious; but the exception against it is, that it is vain and fallible; of which any man will be convinced, that has read Tully de divinat. and St. Aug.

Sctt. 19. Pag. 15.

There is in our foul a kind of Triumvirate - that distracts the peace of our Commonwealth, not less than did that other the State of Rome. There were two Triumvirates, by which thepeace of Rome was dittracted; that of Crassus, Casar and Pompey, of which Lucan, l. 1.

> -Tu caufam aliorum-Facta tribus Dominis communis Roma, nec unqu im In turbam missi feralia fædera Regni.

And that other of Augustus, Autonius and Lepidus, by whom, faith Florus, Respub. convulsa est laceratag; which comes somewhat near the Authors words, and therefore I take it that he means this last Triumvirate.

Would diffwade my beleif from the miracle of the brazen Serpent Vid.

Coqueumin l. 10. Aug. de Civ. Dei, c. 8.

And bid me mistrust a miracle in Elias, &c.] The History is 18. Reg. It should be Elijah. The Author in 15. cap. lib. 7. Pfeudodox thewerh it was not perform'd naturally; he was (ashe

faith) a perfed miracle.

book 5. de Civ dei.

To think the combustion of Sodome might be natural. 7 Of that opinion was Strabe, whereupon he is reprehended by Genebrard in thele words : Strabo falfus est-dum eversionem addicit sulpburi & bitumini e terra e umpentibus, que erat assignando Cœlo, i. e. Deo irate. Tacitus reports it according to the Bible, fulminis ichu arfiffe.

Sed. 10. Pag. 16.

Those that held Religion was the difference of man from Beasts. &c.] Lactantius was one of those : Religioni ergo ferviendum eft, quam qui nonsuspicit, ipse se prosternit in terram, & vitam peculum secutus bu. manitate se abdicat. La Ctant de falf. Sapientia, cap.10.

The Doctrine of Epicurus that denied the providence of God, was no Atheism, but &c. I doubt not but he means that delivered in his Epistle to Menaceus, and recorded by Diogenes Laertius, lib. 10. Quod beatum eternumg; est, id nec habet ipsum negotii quicquam, nec exhibet alteri, itaque nequeira, neque gratia tenetur, quod qua talia sunt imbecillis sunt omnia; which the Epicurean Poet hath delivered almost in the same words.

Omnis enim per se divum natura necesse'st
Immortali avo summa cum pace fruatur,
Semota à nostris rebus sejunctaq; longè:
Nam privata dolore omni, privata periclis
Ipsa suis pollens opibus nibil indiga nostri
Nec bene pro meritis capitur, nec tangitur ira. Lucret, lib.2.

* That villaine and secretary of Hell, that composed that miscreant piece of the three Impostors.] It was Ochinus that composed this piece; but there was no less a man than the Emperour Frederick the Second, that was as lavish of his tongue as the other of his pen; Cuisape in ore, Tres fuisse insignes Impostores, qui genus humanum seduxerunt: Mossem, Christum, Mahumetem. Lips. monit. & exempl. Politic, cap. 4. And a greater than he, Pope Leo the Tenth, was as little savourable to our Saviour, when he us'd that speech which is reported of him, Quantas nobis divitias comparavit ista de Christo fabula.

There are in Scripture Stories that do exceed the fables of Poets.]
So the Author of Relig. Laici. Certe mira admodum in S. S. plus quam in reliquis omnibus Historiis traduntur; (and then he concludes with the Author) Sed qua non retundant intellectum, sed ex-

ercent.

Tet raise no question who shall rise with that Rib at the Resurrection.]
The Author, cap. 2 1. 7. Pseudodox sheweth that it appeares in Anato-

my, that the Ribs of Man and Woman are equal,

Whether the world were created in Autumn, Summer, or the Spring, &. In this matter there is a confent between two learned Poets, Lucretius and Virgil, that it begins in Spring.

At novitas mundi nec frigora dura ciebat, Nec nimies aftus, nec magnis viribus auras. Lucret.

Which he would have to be understood of Ansumn, because that resembles old age rather than infancy. He speaks expresly of the sowles.

Principio

Principio genus alituum variag; volucres Ova rellinguebant exclusa tempore verno. Lucret.

Then for Virgil.

Non alios prima nascentis origine mundi Muxife dies aliumve habuiffe tenorem Crediderim, ver illud erat, ver magnus agebat Orbis, & hibernios parcebant flatibus Euri.

Virgil 2. Georgic.

But there is a great difference about it betwixt Church-Doctors; fome agreeing with these Poets, and others affirming the time to be in Autumn : but truly, in strict speaking, it was not ereated in any one, but all of the feafons, as the Author faith here, and hath shewed at large, Pfeudodox Epidemic. 1, 6, c, 2,

'Listidiculeus to put off or drown the general Flood of Noah in that particular inundation of Dencalion] as the Heathens fome of them formimes did : Confuderunt igitur fepe Ethnici particularia illa diluvia, que longe poft feenta funt, cum illo universali quod praceffit ut ex fabulis in Diluvio Deucaliones sparfis colligere licet; non tamen semper nec ubique. Author. Observat.in Mytholog. Nat. Com. Then amongh those that confound them, he reckons Ovid and Phitarcb.

How all the kinds of Creatures, not only in their own bulks, but with a competency of food and sustenance, might be preserved in one Ark, and within the extent of 300. Cubits, to a reason that rightly examines it will appear very feafible.] Yet Apelles the Disciple of Mercion, took upon him to deride the Hiftery of Mofes in this particular, alledging that it must needs be a fable, for that it was impossible so many creatures should be contain'd in so small a space. Origen and St Ang to answer this pretended difficulty, alledg that Mofes in this place speakes of Geometrical (and not vulgar) cubits, of which eve-Ty one was as much as fix vulgar ones; and fo no difficulty. But Perer. l. 10. com. in Genef. quest. 5. de area, rejects this opinion of Origen, as being both against Reason and Scripture.

1. Because that fort of Cubit was never in u fe amongst any people, and therefore abfurd to think Mofes thould intend it in this place.

2. If Mofer should not speak of the same Cubits here, that he mentions in others places, there would be great equivocation in S.ripture: now in another place, i. e. Exed. 27. he faith, God commanded him to make an Altar three Cubits high; which if it shall be meant of Geometrical Cubits it will contain 18. vulgar Cubits;

Sel. 22. Pag. 17.

which

which would not only render it useless, but would be contraryed the command which he faith God gave him, Exed. 20. Thou halt not go up by steps to my Altar. For without steps what man could reach it? It must therefore be meant of ordinary Cubics; but that being so, it was very feafible. I can more eafily believe than understand it.

And put the honest Father to the Refuge of a Miracle] This honest Father was St. Aug. who delivers his opinion, that it might be miraculously done, lib. 16. de Civ. Det, cap. 7. where having proposed the question how it might be done, he answers, Quod si bomines ear captar secum adduxerunt, & eo modo nbi babitabant earum, genera instituerunt, venandi studio fieri potnisse incredibile non est, quamvis justu Dei five permissu etiam opera Angelorum negandum non sit potuisse transferri: but St. Aug. faith not that it could not be done without a miracle.

And 1500 years to people the World, as full a time, &c.]

That Methusalem wasthe longest liv'd of all the children of Adam. &c.] See both these Points cleared by the Author, in Pseudodox. Epi-

demie, the first, lib.6. cap. 6. the other lib. 7. cap. 3.

That Judas perished by banging himself, there is no certainty in Scripeure, though in one place it seems to affirm it, and by a doubtful word hath given occasion to translate it; yet in another place, in a more punchual Description it makes it improbable, and seems to overthrow it.] These two places that seem to contradict one another, are Math, 27.5. and Alls 1. 8. The doubtful word he speaks of is in the place of Mathem; it is amygan, which fignifieth suffocation as well as hanging, (areadin aringtare, which may fignific literally, after he went out he was choak'd) but Erasmus translates it, abiens laqueo se suspendit : The words in the Acts are, When be bad thrown down himself beadlong, be burft in the midst, and all his Bowels gushed out; which seems to differ much from the expression of Mathew; yet the Ancient Writers and Fathers of the Church do unanimously agree that he was hanged. Some I shall cite. Anastas. Sinaita, 1.7. Anagog. Contempl. Unus latro ingratus cum effet typus Diaboli, & Serpentis, & Juda, qui fe in ligno suffocavit. Gaudentius Brixiens. tract. 13. de nata'. Dom. Mortem debitam laqueo fibimet intulit preparato, &c. Drogottoshen. de sacram. dominic. pass. Famdiu erat quidem quod Christo recesserat, & avaritia laqueo fe suspenderat, sed quod fecerat in occulto, palam omnibus innotuit. S. Martial's in Ep. ad Tholofanos. Non Suftinuit panitentiam, denec laqueo mortis seipsum consumpsit. Ignat. ad Philippens. Diabolus laqueum ei oftendit, & suspendium docuit. Leo Serm. 3. de passion .-Ut quia facinus omnem mensuram ultionis excesserat, te haberet impietas tua judicem, te pateretur sua pana Carnificem. Theodoret. lib. 1. baretic. bul. Ille protinus strangulatus est, que fuit merces ejus proditionis. rofoftom. Hom. 3. de proditore. Pependit calum terramq; inter me-

no funere suffocatus, & cum flagitio suo tumefacta, viscera crepuerunt, erunt, &c. Bernard. Serm. 8 in Pfal. 9. Judis in Aere crepui' medius.

There are those that are so particular, that they acquaint us with the manner, as that it was done with a Cord. Antiochus Laurensis, Spem omnem ase cum abjecisset instituente in eum inimico (sc. Diabolo) suniculo sibi prasocavit gulam. Occumen. in Ast. frasio suniculo quo erat suffocatus decidit in terram pracipitio. 2. That it was done on a Fig-Tree, Beda. Portam David egredientibus sons occurrit in Austrum per vallem direstus, ad cujus medietatem ab occasu Judus se suspendisse narratur: Nam & sicus magna ibi & vetustissima stat.

Juven lib. 4. Hift. Evangelic.

Exorsusq, suas laqueo sibi sumere panus, Informem rapuit sicus de vertice mortem.

3. Some acquaint us with the time when it was done, viz. the next day after he had given the kifs. So Chrysoftom. Homil 1. de proditor. & Mysterio Can. Dominic. Guttur prophanum quod bodie Christo extendis ad ofculum, crastino es illud extensurus ad laqueum: But there are two, that is, Enthymius and Occumenius, that tell us, that the banging did not kill him, but that either the Rope broke, or that he was cut down, and afterwards cast himself down headlong, as it is related in the before mentioned place of the Acts: Agnitus à quibusdam depositus est ne prasocaretur, denic; post quam in secreto quodam loco modico vixisses tempore pra eps facius sive pracipitatus, instatus diruptus, ac dississes est medius, & effusa sunt omnia viscera ejus; ut in Actis. Euthym. cap. 67. in Math. Judas sus pendica e vita non decessit, sed supervixit, desetus est enim prius quam prasocaretur, idqs Apostolerum Acta indicant, quod pronus crepuis medius. Occumen in Act. And this may serve to reconcile these two sceningly disagrecing Scriptures.

That our Fathers ofter the Flood erected the Tower of Babel.] For this fee what the Author faith in his Pfeudodox. Epidemic. 1.7. c. 6.

And cannot but commend the judgment of Ptolomy.] He means of Ptolom am Pbiladelphus, who founded the Library of Alexandria, which he speaks of in the next Scation, he was King of Egypt; and having but t and surnished that Library with all the choycest Books he could get from any part of the world, and having good correspondence with Eleazer the high Priest of the Jews, by reason that he had released the Jewes from Captivity, who were taken by his Predecessor Ptolomans Lagi; he did by the advise of Demetrius Phalereus & Abenian, whom he had made his Library-Keeper, write to Eleaer, desiring him, that he would cause the Books of the Jewes which contained their Laws, to be translated for him into Greek that he might

Sed.22. Pag. 19. might have them to put into his Library: To which the Prick confents; and for the Kings better satisfaction, sends to him Copies of the Books, and with the same, 72 Interpreters skilled both in the Greek and Hebrew Language, to translate them for him into Greek; which afterwards they performed. This is for certain; but whether they translated only the Pensateuch, as St. Jerome would have it, or together with the Books of the Prophets also, as Leo de Castro and Baronius contend, I undertake not to determine: but as to that part of the story, that these Interpreters were put into so many several Cells, which they were about the work of translation; and notwithstanding they were thus severed, that they all translated it totidem verbis; it is but reason to think with St. Jerome (notwithstanding the great current of Authority against him) that it is no better than a Fable.

The Alchoran of the Turks (Ispeak without prejudice) is an ill composed piece, containing in it vain and ridiculous errors in Philosophy &c. 7 It is now in every mans hand, having been lately translated into English; I shall therefore observe but these few particulars in it, in regard the book it felf is to common; and indeed they are not mine own, but Lipfius his observations. He begins, O nugas, O deliria! primum (faith he) commentareft, Desem unum folidumq; (& ho Cover Graci expriment) enndemq; incorporeum effe. Ghriftum non Deum, fed magnum vatem & prophetam; fe tamen majorem, & prexime a Deo miffum, pramia qui ipfum audient Paradifum, qui post aliquot annorum milia referabitur, ibi quatuor flumina latte, vino, melle, aqua fluere, ibi palatie & adificia gemmata atq; aurata effe, carnes avium fuaviffimarum, fructus omne genus quos sparsi jacentesq, sub umbra arborum edent: se d cuput falicitatis, viros faminasque majores solito magnis Genitalibus affidua libidine, & ejus ufu fine tedio aut fatigatione. These and fome others that are in the Alcoran he reckons up. Sed & Phylica queq; miranda (faith he) nam facit Solem & Lunam in equis vebi, illum autem in aquam calidam vefpere mergi, & bene lotum afcendere atq; oriri, Stellas in aere è cagenis aureir pondere , terram in bovini cornu eu-Spidestabilitum, & agitente fe bove ac succutiente fieri terra motum , bominem autem ex birundine aut sanguisuga nesci, &c. Just. Lips. Monit . & exempl. politic. cap. 3.

I believe besides Zoroaster there were divers others that wrote before Moses.] Zoroaster was long before Moses, and of great name; he was the father of Ninus, Justin lib. 1. Si quamlibes modienm emolumentum probaveritis, ego ille sim Carinondus vel Damigeron, vel is Moses, vel Joannes, vel Apollonius, vel isse Dardanus, vel quicunqualins post Zoroastrem & Hostanem, inter Magos celebratus est. Apulcius in Apol.

Others with as many grouns deplore the combustion of the Library at Alexandria. This was that Library before spoken of, set up by Ptolomans Philadelphus; in which 'tis reported by Ammismus Mar-N 2 means, whose Navy being environ'd before Alexandria, he had no means to keep off the enemy, but by flinging of fire, which at length caught the Library and consumed it, as Plutareb hath it in Vita Casaris: but not withstanding we have no reason to believe it was quite consumed, because Sueton. in Claudius, tells us, that that Emperour added another to it; and there must be somwhat before, if it were an addition; but true it is too many of the Books perished: to repair which loss, care was taken by Domitian the Emperour, as the same

Sucton, and Aurel, Victor. do relate.

I would not omit a Copy of Enochs Pillars, had they many nearer Authors than Josephus, &c.] For this the Story is, that Enoch, or his Father Seth, having been intorm'd by Adam, that the world was to perish once by water, and a second time by fire, did cause two Pillars to be erected, the one of Stone against the water, and another of Brick against the fire; and that upon those Pillars was engraven all such Learning as had been delivered to, or invented by Mankind; and that thence it came that all knowledge and learning was not lost by means of the Flood, by reason that one of the Pillars (though the other perished) did remain after the Flood; and Josephus witnesseth, till his time, lib. 1. Antiq; Judaic, cap. 3.

Of those three great Inventions of Germany, there are two which are not without their Incommodities.] Those two he means are Printing and Gunpowder, which are commonly taken to be German Inventions; but Artillery was in China above 1500, years since, and Printing long before it was in Germany, if we may believe Juan Contales Mendosa in his Histe of China, lib. 3. cap. 15, 16. The incommodities of these two Inventions, are well described by Sam, Daniel, lib. 6. of the Civil

Wars.

Fierce Nemelis, mother of Fate and Change, Sword-hearer of th' Eternal Providence, Turns her stern look at last into the West, As griev'd to see on earth such happy rest; And for Pandora calleth presently, Pandora Joves fair gift, that first deceived Poor Epimetheus in his imhecility. That though he had a wondrous hoon received, By means whereof curious mortality W.n of all former quiet quite hereaved. To whom heing come deckt with all qualities, The wrathful Goddess breaks out in this wise: Dost thou not see in what secure estate, These seminants of the west series and the secure estate.

As if they had made Covenant with Fate,
To be exempted, free from others pain,
At one with their desires, friends with debate,
In peace with pride, content with their own gain.
Their bounds contain their minds, their minds applyed
To have their bonds with plenty beautissed.

Devotion (Mother of Obedience) Bears such a band on their credulity, That it abates the Spirit of eminence, And bufies them with humble piety: For fee what works, what infinite expence, What Monuments of zeal they edifie, As if they would, fo that no stop were found, Fill all with Temples, make all boly ground. But we must cool this all-believing zeal, That bath enjoy'd so fair a turn so long, &c. Dislike of this first by degrees shall steal, As upon fouls of men perswaded wrong; And that the facred power which thus bath wrought, Shall give ber felf the Sword to cut ber throat. Go therefore thou with all thy stirring Train Of swelling Sciences (the gifts of grief) Go loofe the links of that foul binding Chain, Eularge this uninquisitive belief: Call up mens spirits, that simpleness retain, Enter their hearts, and knowledg make the Thirf To open all the Doors to let in Light, That all may all things fee but what is right. Opinion arm against opinion (grown) Make new-born contradictions still arise, As if Thebes Founder (Cadmus) tongues bad fown Instead of teetb, for greater mutinies: Bring new defended faith against faith known, Weary the foul with contrarieties, Till all Religion become Retrograde, And that fair tye the mask of fin be made: And bester to effect a speedy end, Let there be found two fatal Instruments, The one to publish, the other to defend Impious contention, and proud discontents: Make that instamped Characters may fend Abroad to thousands, thousand mens intents, And in a moment may dispatch much more, Iban could a world of Pens perform before;

Printing.

Whereby all quarrels, Titles, fecrefies, May unto all be prefently made known. Factions prepar'd, Parties allur'd to rife. Seditions under fair pretences fown: Whereby the velgar may become fo mile That with a felf presumption overgrown. They may of deepest Mysteries debate, Controll their betters, censure acts of State. And then when this dispersed mischief shall Have brought confusion in each mystery. Call'd up contempts of State in general, And ripen'd the bumour of impiety, Then take the other Engine wherewithall They may torment their felf- wrought mifery ; And scourge each other in fo strange a mife, As time or tyrants never could devise, &c.

Guns.

See Bellermontan. in his Differtat. Politic, differt. 29. and 30.

For the other Invention, the Latine Annotator doubts whether the Author means Church-Organs, or Clocks? I suppose he means Clocks, because I find that Invention reckon'd by a German, with the other two, as a remarkable one. It is by Busbequiu, speaking, of the Turks, who hath these words, Testes majores minores, bombarda, multaq, alia que ex nostris excogitata ipsi adse avertunt, ut libros tamen typis excuderent, borologia in publico baberent, nondum adduci potuerunt, Epist. Legat. Turcie. I suppose if he had known any Invention which next to the other two had been greater than this, he would not have named this, and this being the mext considerable, we have no cause to doubt but the Author meant it.

To maintain the Trade and Mythery of Typographers.] Of this Cuname in his Satyre Sardi vænales. Qui bis in anno nomen suum ad Germanorum nundinas non transmittit, eruditionem suam in ordinem eo actam credit, itaq; nunquam tot fungi una pluvia nascuntur, quot nunc libri

uno die.

Sid. 25. Pag. 21. The Turk in the bulk that be now stands, is beyond all hope of conversion. That is, in respect of his great Arcnyth, against which it is not probable the Christians will prevail; as it is observed by Mönsieur de Silbon. La Race des Ottomans (saith he) que ofte a Dieu la Religion qu'il a revelee, & aux hommes la liberse que le droit des Gens leur laisse a fait tant de progres depuis trois Cens & quelques annees qu'il semble qu'elle n' ait plus nen a craindee de deborse, & que son empire ne puisse perirqu par la corruption de dedans, & par la dissolution des parties qui compo-

composent un corps si vaste. Mr. de Silhon en son Minist. D' Estat. I. I. c.

None can more justly boost of persecutions, and glory in the number and valour of martyrs. I Of the fortitude of the Christians in this particular, Minutius Falix, in the person of the Ethnick, hath these words, Per mira stustitia & incredibili audacia spernunt tormenta prasentia, dum incerta metnunt & futura; & dum mori potest mortem timent, interim mori nontiment. And ascerwards, when he speaks in the person of the Christian; he saith, that Christian-women and thildren have in this surpassed Scavola and Regulus: Viros (saith he) cum Mutio vel cum Atilio Regula comparo: pueri & muliercula nostra Cruces & Tormenta, seras & omnes suppliciorum terriculas inspirata patientia deloria illudunt. Minut. in Octav. vide Aug. de Civit. Dei, lib. 1.

c. 23, 24.

If we shall strictly examine the circumstances and requisites which Ari-Rotle requires to true and perfect valour, we shall find the name only in his Mafter Alexander, (that is, no more than the Name) and as little in that Roman worthy Julius Cefar.] Aristot. 3. Esbic. cap. 7. amongst other requifites, requires to valour, that it keep a mediocrity betwirt audacity and fear; that we thrust not our selves into danger when we need not; that we spare not to shew our valour when occasion requires : He requires for its proper object, Death; and to any death, he prefers death in War, because thereby a man profits his Country and Friends; and that he calls mors honefta, an honeft or honourable death : and thereupon he defines a valiant man to be, Is qui morte bonefta proposta, iifq; omabus que cum fint repentina mortem adfuerunt metu vacat. So that by the Authors faying, there was only the Name in Alexander, he means only that which is rendred in the two last words metu vacans, and not the rest that goes to make up the definition of a valuant man, which is very truly affirmed of Alexander, who exposed himself to hazzard many times when there was no cause for it: As you may read in Curtius, he did, in the fiege of Tyrus, and many other wayes. Cerry-cy semble recercher & courir a force les dangiers comme un impeteux terrent, qui choque & attaque fans discretion, & Sans chois tout ce qu'il rencontre, faith Montaign, speaking of Alexander, 1. 2. des Efs. cap. 34. And for Cafar, it cannot be denyed, but in his Wars he was many times (though not fo generally as Al x inder) more adventrous than reason military could warrant to him; and therefore Lucan gives him no better Character than

> Acer & indomitus quo spes quoq; ira vocasses Ferre manum, &c.

Lucah. lib. 1.

To instance in some Particulars: With what an inconsiderable strength did he enterprize the conquest of Egypt, and afterwards went to attaque the forces of Scipio and Juba, which were ten times more than his own? after the Battle of Pharsalia, having sent his Army before into Asia, and crossing the Hellespont with one single Vessel, he there meets Lucius Cassius with ten men of War, he makes up to him, summons him to render, and he doth it. In the samous and surious siege of Alexia, where he had 80000 men to make desence against him, and an Army of one hundred and nine thousand Hosse, and two hundred and forty thousand soot, all marching towards him, to raise his siege; yet for all that he would not quit the Siege, but first sought with those without, and obtain'd a great Victory over them, and soon afterwards brought the besieged to his mercy.

Sed.26. Pag.2 I.

The Council of Constance condemns John Huffe for an Heretick, the Stories of his own Party flyle bim a Martyr.] John Huffe did agree with the Papifts against us in the Point of Invocation of Saints, Prayers and Sacrifice for the Dead, free Will, Good Works, confession of fins, feven Sacraments, &c. Gordon. Huntl. contr. 3. de Sacr, Euch. cap. 17. Yet was he condemned for maintaining certain Articles faid by that Council to be heretical and feditious, and was burnt for Herefie. Now as I will not fay he was an Heretick, so can I not maintain that he was a Martyr, if it be but for this one Article, which in the 15. Seff. of that Council was objected against him, which he did acknowledge, but would not recal, i. e. Nullus est Dominus Civilis, dum est in peccato mortali. If that Doctrine should be believed, we shall have little obcdience to civil Magistrates; and without that, how miserable is humane condition? That which begat compassion towards Husse in those of his own Party was, that he had a fafe conduct from the Emperour Sigismund; and therefore it was, say they, a violation of publick f ithin the Council and Emperour in putting him to death.

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I cannot fee why the Angel of God should question Eldras to recal the time past, if it were beyond his own power, or that God should pose mortality in that which he was not able to perform himself.] Six K. Digby in his Notes upon this place faith there is no contradiction in this. because he saith it was but putting all things that had motion into the same state they were in at that moment, unto which time was to be reduced back, and from thence letting it travail on again by the same motions, &c. which God could do. But under favour, the contradiction remains, if this were done that he mentions; for Time depends not at all upon motion, but has a being altogether independent of it, and therefore the same revolution would not bring back the fame time, for that was efflux'd before; as in the time of Foshua, when the Sun stood still, we cannot but conceive, though there were no motion of the Sun, but that there was an efflux of Time, otherwise, how could the text have it, That there was not any day, before or after, that was fo long as that? for the length of it muit be underfood in respect of the flux of time. The reasoning of Sir Kenelme is founded upon the opinion of Aristot, who will needs have it, that Time cannot be without mutation; he gives this for a reason, because when we have flept, and cannot perceive any mutation to have been, we do therefore use to connect the time of our fleeping and of our awaking together, and make but one of it : to which it may be answered, although some mutation be necessary, that we may mark the flux of time, it doth not therefore follow that the mutation is necessary to the flux it felf.

I excuse not Constantine from a fall off bis Horse, or a mischief from Sed. 28. his enemies, upon the wearing those nails, &c.] Hac de re videatur P. Pag. 23.

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of the Heavens, and others say by the affistance of the Devils. Now the indisputable miracle the Author speaks of, is, that they ceas'd upon the coming of Christ; and it is generally so believed; and the Oracle of Delphos delivered to Augustus, mentioned by the Author in this Section, is brought to prove it, which is this:

Me puer Hebraus divos Deus ipfe gubernans Cedere sede jubet, tristemq, redire sub orcum. Aris erzo debinc tacitus discedito nostris.

But yet it is so far from being true that their cessation was miraculous, that the truth is, there never were any predictions given by those

Oracles at all.

That their cessation was not upon the coming of Christ, we have luculent testimony out of Tully, in his 2. lib. de Divinat. which he writ many years before Christ was born; who tells us that they were silent (and indeed he never thought they were otherwise) long before that time, insomuch that they were come into contempt: Curisto modo jam oracula Delphis non eduntur, non modo nostra state, sed jamdin jam ut nibil possit esse contemption. So that for that of Delphos, which was the most samous of them all, we see we have no reason to impute the cessation of it to Christ; Why therefore should we do so for any of the rest?

2. For their predictions, let us consider the three several wayes before mentioned, whereby they are supposed to operate; and from thence see whether it be probable that any such Oracles ever were.

The first Opinion is, that it was by exhalation or vapour drawn up from the earth; and gives this for a reason of their being, that they were for a time nourished by those exhalations; and when those ceased, and were exhausted, the Oracles famish'd and dyed for want of their accustom'd sustenance : this is the far-fetcht reason given by Plutarch for their defect; but'twis not devised by him, but long before, as appears, in that Tully scoffs at it, lib. de divinat. De vino aut salfamento putes loqui (faith he) que evanescunt vetustate. This feem'd abfurd to others, who do therefore fay this was not to be attributed to any power of the Earth, but to the power of the Heavens, or Intelligences Calestial; to certain aspects whereof, they say, the Statua's of those Oracles were so adapted, that they might divine and foretel future events. But yet to others, this way feemeth as absurd as the others; for, fay they, admitting that there were an efficacy in the Heavens, more than in the Earth; yet how can it be that men should come by the skill to fit the Statua's to the Aspects or influences of the Heavens? or if at any time they had fuch skill, why should not the same continue the rather, because men are more skilled in the mo-

tions

tions of the Heavens, of later than in the former time? Again, they do not see how it should be that the cause should be of less excellency than the effect; for if a man (fay they) can by his industry make fuch Oracles, why can he not produce the same effect in another man? for if you affirm that the Heavens influence is requifite, they will tell you that Influence may happen as well to a man, as to a Statua of wood or stone. Therefore the third fort being unsatisfied, which either of the former wayes conclude, that this was perform'd by the Devil; but for that it will appear as contrary to Reason and Philo-Sophy, as either of the former; for Philosophy teacheth that things fingular, or individual, are to be known only by fense, or by such an Intellect, as doth know by its Essence; and Theology teacheth that God only knoweth the heart, and that the Devil doth not know by fense, nor by effence; and fince 'tis admitted by all, that most of the answers that were pretended to be given by those Oracles, were de rebus singularibus, or individuis; it is evident that these predictions were not perform'd by Devils. How then? why those predictions which the ignorant Heathen took to come from Heaven, and fome Christians (not less ignorant) from the Devil, was nothing but the jugling and impostures of the Pricks, who from within the Statua's gave the answers; which Princes connived at, that they might upon occasion serve their turns upon the ignorance of the people; and the learned men, for fear of their Princes, durst not speak against it. Lucian hath noted it, and so a more authentick Author, Minut. Felix, in Octav. Authoritatem quafi prasentis numinis consequentur dum inspirantur interim vatibus. But in process of time, the people grew less credulous of their Priests, and so the Oracles became to be filent : Cum jam (faith he) Apollo versus facere desiffet, cujus tunc cautum illud & ambiguum defecit oraculum : Cum & politiores bomines & minus ereduli effe caperunt. Sir H. Blount in his Levantine voyage, faith he fow the Statua of Memnon to famous of old; he faith it was hollow at top, and that he was told by the Egyptians and Jews there with him, that they had feen some enter there, and come out at the Pyramid, two Bows-shoot off; then (saith he) I soon believ'd the Oracle, and believe all the rest to have been such; which indeed, is much easier to imagine than that it was perform'd by any of the three wayes before mentioned. St. Aug. hath composed a Book, where he handleth this point at large, and concludeth that the Devils can no more foretel things to come, than they are able to discern the thoughts that are within us. Aug. lib. de Scientia Demon.

Till I laughed my self out of it with a piece of Justin, where he delivers that the Children of Israel for being scabbed were hanished out of Egypt. These words of Justin are, Sed cum scabiem Ægyptii & pruriginem paterentur, responso moniti, eum (se Moysen) cum ægris, ne

peffu ad plures serperet, terminis Ezypti pellunt. l. 36. But he is not fingular in this, for Tacitus tells us, Hist lib. 5. Plurimi authores consentium orts per Ezyptum tabe qua corpora fædaret, Regem (Ochorim) (he means Pharaoh) adito Hammonis oraculo remedium petentem purgare Regnum & id genus hominum — alias in terras avertere justum. Et paulo inserius, Quod ipsos scabies quondam turpa verat.

Sect. 30. Pag. 24. I bave ever believed, and do now know that there are Witches What fort of Witches they were that the Author knew to be such, I cannot tell; for those which he mentions in the next Section, which proceed upon the principles of Nature, none have denyed that such there are; against such it was, that the Lex Julia de veneficiis was made, that is, those, Quinoxio poculo ant impuris medicaminibus aliquem furrint infection. Al. ab Alex Gen. Dier. 1. 5. c. 1. But for the opinion that there are Witches which co operate with the Devil, there are Divines, of great note, and far from any suspicion of being irreligious, that do oppose it. Certainly there is no ground to maintain their being from the story of Oracles, as may be seen from what hath been said on the precedent Section.

Nor have the power to be so much as Witches. Pliny saith, so it fared with Nero, who was so hot in pursuit of the Magick Arts, that he did dedicate himself wholly to it, and yet could never satisfie himself in that kind, though he got all the cunning men he could from

the East, for that purpose . P in. 1. 3. Nat. Hist. c. 1.

By conjunction with the Devil Though, as the Author faith, it be without a possibility of Generation, yet there are great men that hold, that such carnality is performed; as August. in Levit. Aquin.l.2.

dequ. 73. art. ad 2. and Juitin Martyr. Apol. 1.

It is no new opinion of the Church of Rome, but an old one of Pythagoras and Plato] This appears by Apuleius a Platonift, in his Book de Des Socratis and elsewhere. See Mede's Ap stasse of the latter times, where out of this and other Authors, you shall see collected all the learning de Genin.

I cannot with those in that great Father securely interpret the work of the first day, Fiat link, to the creation of Angels.] This great Father is S. Chrysoft Homil in Genes. But yet 'tis his opinion, as also of Athanashus and Theodoret, that there is express mention of the creation of Angels, so that they need not rest upon this place, which they admit to be somewhat obscure. The place which they take to be express, is that of the 130 Psalm, where David begins to speak of the Majesty of God, in this manner: Consessionem sive majestatem & decorem industri, amicins lumine sicut vestimento: Next he speaks of the Heavens, saying, Thou hast stretched them out over us like a Tent. Then he speaks of the Angels. Q is facin Angelos twos spiritus. Now if it shall be objected, that this expression is onely of the time present, and without

Sect. 33.

without relation to the Creation: Answer is given by Divines, that the Hebrews have but three Tenfes in their Verbs, the Preterperfect. Present, and Future Tense; and have not the use of the Preterimpertect, and Preterpluperfect, as the Greeks and Latines have; whence it ariseth, that the Present Tense with the Hebrews, may, as the sentence will bear it, be translated by the Preterimpersect, as also by the Preterperfect and Preterpluperfect Tense; and this (they say) is practifed in this very passage, where the Phrase, as it is in Hebrew, may be rendred as well qui faciebas, as qui facis Angelos, &c. Vid. Hieronym. in Ep. ad Titum, & Thom. Agu. 1. p. qu. 61. art 3. The Latine Annotator faith, the Father meant by the Author, is St. Aug. and quotes him, 1. 11. de Civ. Dei, car. 9. which place I have perused, and find the expression there used by St. Aug. is but hypothetical; for these are his words: Cum enim dixit Fiat lux, & facts eft lux, si recte in bac luce creatio intelligitur Angelorum, &c. Where you fee 'tis but with a Si, and therefore I conceive the Author intends not him, but Chryfostom.

Where it subfifts alone, tis a Spiritual Substance, and may be an Angel, Epicurus was of this opinion, and St. Aug. in Enchirid ad Laurentium.

Moses decided that Question, and all is salved with the new term of Sect. 35. Creation] That is it which Ariffotle could not understand; he had Pag. 28. learned that ex nibilo nibil fit , and therefore when he found those that disputed that the World had a beginning, did maintain that it was generated; and he could nor understand any generation, but out of matter præ-xiftent in infinitum, therefore he took their opinion to be abfurd, and upon that ground principally, concluded the World to be eternal: whereas, if he had understood that there may be fu;h a thing as Creation , he had not done it , for that folves his proceffus Take from Plato, that the World had a beginning, and from A iffer, that it was not generated, and you have the (true) Christian opinion.

In our study of Asat my, there is a mass of mysterious Philosophy, and Scal. 36. such as reduced the very Heathens to Divinity.] So it did Galen, who Pag, 290 confidering the order, use, and disposition of the parts of the body, brake forth into these words: Compono bic prefecto Canticum in creatoris nostre laudem, quad ultra res suas ornare voluit melius quam ulla

arte poffent. Gilen. 3. de ufu partium.

I cannot believe the wisdom of Pythagoras did ever positively, and in a Sect. 37. literal sense, affirm bis Metempsychosis. In this the opinion of Grotius Pag. 30. is contrary to the Author, who faith this opinion was begotten by occasion of the opinion of other Philosophers, who in their discourses of the life that is to be after this, brought fuch arguments, Que non magis de homine quem de bestiis procedunt. And therefore, faith he, mirandum non est, si transitum animarum de bominibus in bestias , de bestiis

in bomines alii commenti sunt. Lib. 2. de ver. Relig. Christ. (vide etiam Annotat. ejusd.) Butyet there is a shrewd objection against the opinion of Pyshagoras, if he did mean it literally, which is cast in by the S. Ctators of Democritus and Epicurus, which Lucretius remembers in these Verses:

Præterea si immortalis natura anima Constat, & in corpus nascentibus insinuatur, Cur super ante actam ætatem meminisse nequimus? Nec vestigia gestarum rerum ulla tenemus? Namsitanto per'st animi mutata potestas, Omnisut actarum excideret retinentia rerum, Non ut opinor ea ab lato jam longiter errat.

This Argument, 'tis true, is pro falso contra falsum, but yet holds ad bominem so far, that it is not likely (as the Author saith) but Pythagorus would observe an absurdity in the consequence of his Metempsychosis; and therefore did not mean it literally, but detired only to express the Soul to be immortal, which he, and the other Philosophers that were of that opinion, who had not heard of Creation, could not conceive, unless it must be taken for truth, that the soul were before the body; so saith Lastantius of them. Non putaverunt aliter sieri posse ut supersint anima post corpora, nist videntur suisse ante corpora. De fals, Sap. c. 18.

Sed. 41. Pag. 32. I do not ensy the temper of Crows or Daws] As Theophrastus did, who dying, accused Nature for giving them, to whom it could not be of any concernment, so large a life; and to man, whom it much concern'd, so short a one. Cic. Tusc. quest. 1.3. How long Daws

live, fee in Not. ad Sect. 41.

Sect. 42. Pag. 33. Not upon Cicero's ground, because I have liv'd them well. I suppose he alludes to an expression in an Epistle of Cicero, written in his Exile, to his wife and children, where he hath these words to his wife 1 Quod reliquum est, te sustenta mea Terentia ut potes, honestissime viximus, storuimus. Non vitium nostrum sed virius nos assistit, peccatum est nullum nisi quod non una animum cum ornamentis amisimus 1.24. Ep. 4.

And stand in need of Esons bath before threescore. Eson was the Father of Fason, and, at his request, was by Medea, by the means of this Bath, restored to his youth. Ingredients that went into it, and the description of Medea's performance, Ovid gives you, 1.7 Meram.

Interea calido positum medicamen abeno
Fervet & cxultat, spumisq, tumentibus albet.
Nic Emonia radices valle resettu,
Seminaq; & flores, & successincoquit atros

Adjicit

Atficit extremo lapides Oriente petitos. Et quas Oceani refluum mare lavit arenas : Addidit exceptas lune de nocte pruinas. Et Stricis infames ipfis cum carnibus alas. Ing; virum soliti vultus mutare ferinos, Ambigui pr fecta lupi, nec defuit illi Squamea Cinyphei tenuis membrana Chelindri, Vivacifq, jecur cervi ; quibus insuper addis. Ora, caputq, novem cornicis secula paffe. His & mille aliis, poftquam fine nomine rebus. Propositum instruxit mortali barbara munus Arenti ramo janspridem mitis olive Omnia confudit, summisq, immiscuit ima. Ecce, vetus calido versatus stipes abeno Fit viridis primo, nec longo tempore frondes Induit, O subito gravidis oneratur elivis. At quicung: cavo (pumas ejecit abeno Ignis, O in terram gutta cecidere calentes, Vernat humus, florefq; & mellia pabula surgunt. Que simulac vidit, stricto Medea recludit. Enfe fenis jugulum, veteremq; extre cruorem Paffa replet suocis, quos postquam combibit Esen, Aut ere acceptas, aut vulnere, barba comeq, Lanitie posita, nigrum rapuere colurem. Pulsa fugit macies : abeunt pallorq; fitusque : Adjectog: cove supplentur corpore ruge; Membrig, luxuriant. Elon miratur, & olim. Ante quater denos bunc fe reminiscitur annos. Diffimilemq; animum subiit, etate relicts.

Extol the Suicide of Cato] As doth Seneca in feveral places; but Sect. 44. Lactantius faith, he cast away his life, to get the reputation of a Platonick Philosopher, and not for fear of Cafar; and 'tis very probable, Pag. 34. he was in no great fear of death, when he slept so securely the night

before his death, as the story reports of him.

Emori nolo, sed me esse morthum, nihil curo. Were I of Cæsars Religion. I doubt not, but here is a fault of the Press, and that inflead of Gesarit should be Gicero. I meet not with any such saying imputed to Cæsar, nor any thing like it, but that he preserr'd a sudden death (in which he had his option) to any other; but I meet with such a saying in Cicero quoted out of Epicharmus [Emori nolo, sed me esse morthum nihili astimo] Where Cicero sustaineth the part of the Epicure, that there is no hurt in being dead, since there remaineth nothing after it. Cic, 1. Thuse, qu, non proculuabinitie.

Or

Or whence Lucan learn'd to fay,

Communis mundo Superest rogus, &c 7 Why Lucan was a Stoigue. and Sect. 45. 'twas an opinion among them almost generally, that the world should Pag. 36. perish by fire; therefore without doubt from them he learned it. Ca. lum quoque cum omnibus que in celo continentur, ita ut capiffet definere. fontium dulci aqua marifve nutriri, in vim ignis abiturum. Stoicis constans opinio est, quod consumpto humore mundus bic omnis ignescat. Minutius in Octav. But Minutius should have excepted Boetius, Poffidonius, Diogenes Babylonius, and Zeno Sidonius, who were Stoignes. and yet did not think the world should be destroyed by fire, nor yet

by any other means.

How hall we interpret Elias 6000 years, &c. i] Laciant, is very po-Sect. 46. fitive that the world should last but 6000 years; but his reason for it Pag. 36. is somewhat strange; thusit is, Quoniam fex diebus cunsta Dei opera perfecta funt, per secula sex, i.e. annorum sex milia manere in boc Itatu mundum necesse eft. De divino pranio, cap. 14.

Ipfa fui pretium virtus fibi, is but a cold principle. It is a Stoical Sect. 47. principle. Quaris enim aliquid supra summum, interrogas quid petam Pag. 37. extra virtutem ipfam. Nibil enim babet melius. Pretium fui eft. Senec.

de vit. beat. c. 9.

That houest artifice of Seneca. What that artifice was, is to be seen in Senec. l. 1. ep. 11. Aliquis vir bonus nobis eligendus eft, & femper ante oculos habendus, ut fic tanquam illo spectante vivamus, & omnia tanguam illo vidente faciamas. Et paulo post; Elige itag; Catonem; fi bic videtur tibi nimis rigidus, elige remi fioris animi virum Lelium, Oc. which though, as the Author faith, it be an honest Artifice, yet cannot I but commend the party, and prefer the direction of him (whoever he were) who in the Margin of my Seneca, over against those words, wrote these : Quin Deopotius qui semper omnibus omnia agentibus non tanguam fed reipfa adeft, & videt ; ac etiam ut Teftis, vindex & punitor est male agentis.

I have tryed, if I could reach that great Resolution of his (that is of * Tho: Aquin. Seneca) to be bonest without a thought of Heaven or Hell.] * Seneca brags he could do this, in these words: Siscirem deos peccataignoscituros, & homines ignoraturos, adhu: propter vilitatem peccati peccare erubefce-

rem. Credat judans appella: non ego .-

And Atbeifts have been the onely Philosophers. That is, if nothing remain after this lifew St. Aug. was of this opinion. Disputabam-Epicurum accepturum fuisse palmam in animo meo, nist ego credidissem polt mortem reftare anima vitam, Oc. Aug. 1.6. conf. cap. 16.

God by a powerful voice shall command them back into their proper; shapes. So Minutius. Caterum quis tam ftultus eft aut brutus, & audeat repugnare bominem à Deo ut primum potnit fingi , ita poffe denuo reformari, nibil effe poft abitum . O ante ortum nibil fuiffe ; ficut de nibilo nasci

Sect. 48. Pag. 38.

in com. in Boet. de Confolst. prope finem.

nasci licuit, ita de nibilo licere reparari. Porro dissicilius est id quod sit incipere, quod quam id quod suerit iterare. Tu perire Deo eredis, si quid nostris oculis hebetibus subtrabitur. Corpus omne sive arescit in pulverem sive in bumorem solvitur, vel in cinerem comprimitur, vel in nidorem tenuatur, subducitur nobis, sed Deo elementorum in eustodi inseruntur. In Octav. Vide Grot. de veritate Relig. Christian. ubi (lib. 2.) solvit objectionem, quod dissoluta corpora restitui nequeunt.

Or conceive a flame that can either prey upon, or purifiethe substance of Sect. 50. a soul. Upon this ground Psellus lib. 1. de Energia Damonum, c. 7. Pag. 39. holds that Angels have bodies, (though he grants them to be as pure, or more pure than Air is) otherwise he could not apprehend how they should be tormented in Hell; and it may be upon this ground it was, that the Author sell into the error of the Arabians, mentioned

by him, Sett. 7.

There are as many Hells as Anaxagoras conceited worlds I affure Sect. 51. may felf that this is falle printed, and that instead of Anaxagoras it Pag. 41. should be Anaxarehus; for Anaxagoras is reckon'd amongst those Philosophers that maintain'd the Unity of the world, but Anaxarehus (according to the opinion of Epicurus) held there were infinite VV orlds. This is he that caus'd Alexander to weep by telling him there were infinite worlds, whereby Alexander it seems was brought out of opinion of his Geography, who before that time thought there remained nothing, or not much beyond his Conquests.

It is bard to place those souls in Hell. Lactantius is alike chari- Sect. 44. tably disposed towards those. Non sum equidem tam iniquus ut eos Pag. 42. putem divinare debuisse, ut veritatem per seips sinvenirent (quod sieri. ego non posse consiteor) sed boc ab eis exigo, quod ratione ipsa prastare potuerunt. Lactant. de orig. error. c. 3. which is the very same with Sir K. Digby's expression in his Observations on this place. I make no doubt at all (saith he) but if any sollow'd in the whole tenour of their lives, the dictamens of right reason, but that their journey

was secure to Heaven.

Aristotle transgress'd the rule of his own Ethicks.] And so they Sect. 55. did all, as Lactantius hath observed at large. Aristot. is said to have Pag. 43. been guilty of great vanity in his Clothes, of incontinency, of unfaithfulness to his Master Alexander, &c. But it is no wonder in him, if our great Seneca be also guilty, whom truely notwithstanding St. Jerome would have him inserted into the Catalogue of Saints, yet I think he as little deserved it, as many of the Heathens who did not say so well as he did, for I do not think any of them lived worse: to trace him a little. In the time of the Emperour Claudius we find he was banish'd for suspicion of incontinency with Julia the daughter of Germanicus. If it be said that this proceeded meetly from the spight of Messalina, (and that Lipsius

did not complement with him in that kind Apostrophe, Non expetit in te hat culpa, O Romani nominin & Sapientie magne. Sol. Not. in Tacit.) why then did the not cause him to be put to death. as well as the did the other, who was her Husbands Niece? This for certain, what ever his life were, he had paginam lascivam, as may appear by what he hat's written, de Speculorum nfu, l. 1. Nat Qu. cap. 16. Which (admitting it may in a Poet . yet) how it should be excus'd in a Pailosopher I know not. look upon him in his exile, we find that then he wrote his Epifile De Confolat, to Polybius, Claudius his creature (as honeft a man as Pallas or Narciffus) and therein he extels him and the Emperour to the Skies; in which he did grossly prevaricate, and lost much of his reputation, by feeking a discharge of his exile by so fordid a means. Upon Claudius his marriage with Agrippina, he was recall'd from Banishment by her means, and made Pretor, then he forgets the Emperour, having no need of him, labours all he can to depress him, and the hopeful Britangicus, and procured his Pupil Nero to be adopted and defign'd fucceffor, and the Emperours own Son to be difinherited; and against the Emperour whom he so much praised when he had need of him, after his death he writes a scurrilous Libel. In Nero's Court, how ungratefully doth he behave himself towards Agrippina! who although she were a wicked woman, yet the deferv'd well of him, and of her fon too, who yet never was at rest till he had taken away her life, and upon suspition cast in against her by this man. Afterwards, not to mention that he made great haft to grow rich, which should not be the business of a Philosopher, towards Nero himself; how well did it become his Philosophy to play the Traytor against him, and to become a complice in the conspiracy of Pife? and then as good a Tragedian as he was, methinks he doth in extremo acin deficere, when he must needs perswade Paulina, that excellent Lady his wife, to die with him : what should move him to defire it? it could in his opinion be no advantage to her, for he believ'd nothing of the immortality of the foul; (I am not fatisfied with the reason of Tacitus Ne fibi unice dilectam ad injurius relinqueret, because he discredits it himself, in almost the next words, where he saith, Ners bore her no ill will at all, (and would not fuffer her to die) it must furely be then, because he thought he had not liv'd long enough (being not above 114 years old, so much he was) and had not the fortitude to die, unless he might receive some confirmation in it by her example. Now let any man judge what a precious Legacy it is that he bequeaths by his nuncupative will to his friends in Tacitus. Conversus ad amicos (faith he) quando meritis eorum referre gratiam probiberetur, quod unum. jam tamen & pulcherrimum babebat, imaginem vita sua relinquere testa-

inr.

tur. It cannot be denyed of him, that he hath said very well; but yet it must as well be affirmed, that his Practise hath run counter to

his Theory, to use the Authors phrase.

The Scepticks that affirmed they knew nothing. The ancient Philofophers are divided into three forts, Dogmatici, Academici, Sceptici; the
first were those that delivered their opinions positively; the second left
a liberty of disputing pro & contra; the third declared that there was
no knowledge of any thing, no not of this very proposition, that there
is no knowledge, according to that,

-Nibil sciri siquis putat, id quoq; nescit An sciri possit, quod se nil

feire fatetur.

The Duke of Venice that weds himself to the Sea by a Ring of Gold,&c.] The Duke and Senate yearly on Ascension-day use to go in their best attire to the Haven at Lio, and there by throwing a Ring into the water, do take the Sea as their spouse Vid. Hist. Ital. by W. Thomas Cambro-brit. Bubbequius reports that there is a custom amongst the Turks, which they took from the Greek Priests, not much unlike unto this. Cum Gracorum sacerdotibus mos sit certo veris tempore aquas consecrando mare clausum veluti reserve, ante quod tempus non sacile se commistunt sluttibus; ab ea Geremonia nec Turca absunt. Busb. Ep. 3, legat. Tursic.

But the Philosopher that threw his money into the Sea, to avoid avarice, &c.] This was Apollonius Thyaneus, who threw a great quantity of Gold into the Sea with these words, Pessundo divitias, ne pessundare ab illin. Polycrates the Tyrant of Samos cast the best Jewel he had into the Sea, that thereby he might learn to compose himself against the

viciflitude of Fortune.

There go so many circumstances to piece up one good action.] To make an action to be good, all the causes that concur must be good; but one bad amongst many good ones, is enough to make it vitious, accord-

ing to the rule, Bonum ex caufa integra, malam ex partiali.

The vulgarity of those judgements that wrap the Church of God in Sect. 56. Strabo's Cloak, and restrain it unto Europe. This Strabonis tunics in Pag. 44. the translation, but Chlamydi would do better, which is the proper expression of the word that Strabo useth: it is not Europe, but the known part of the world that Strabo resembleth to a Cloak, and that is it the Author here alludeth to a but we have no reason to think that the resemblance of Strabo is very proper. Vid. Sir Hen. Savil. in not. ad Tac. in vita Agricola.

Those who upon a rigid Application of the Law, sentence Solomon Sect. 57. unto damnation, &c.] St. Aug. upon Psal. 126 and in many other Pag. 45. places, holds that Solomon is damned; of the same opinion is Lyra, in

2 Reg, c. 7. and Bellarm, I Tom. lib. I. Controv. c. 5.

with the state of . The of the comment of the second The trial of the second The state of the state of the Helenstein Land of the State of the Stat A Control of the State of the S and the second second second second and the second s Street and a second the first of the second and the second also the The state of the s the authors specialized by the contract of the contract of



THE

SECOND PART.



Wonder not at the French for their Frogs, Snails and Sect. 1. Toad flools] Toad-flools are not peculiar to the Pag. 47. French; they were a great delicacy among the Remans, as appears every where in Martial. It was conceived the Emperor Claudins received his death by Poylon, which he took in a Mushroom Suet. and Tae.

How among fo many millions of faces , there should Sett. 2. be none alike. It is reported there have been some so much alike, that Pag. 49. they could not be diftinguished; as King Antioebus, and one Antemon, a Plebeian of Syria, were to much alike, that Lacdice, the Kings widow, by pretending this man was the King, diffembled the death of the King to long, till according to her own mind, a Successor was chosen. Cn. Pompeius, and one Vibius the Orator; C. Planeus, and Rubrius the Stage-player; Caffins Severus the Orator, and one Mirmello; M. Melala Cenforius, and one Menogenes, were so much alike, that unless it were by their habit, they could not be diftinguished : but this you must take upon the Faith of Pliny, (lib. 7.c.12.) and Solinus, (cap. 6.) who as this Author tells elsewhere, are Authors not very infallible.

What a Bargozeuvouazea and hot skirmish is betwixt S. and T. in Lu- Sect. 3. cian, In his Dialog. judiciam vocalium, where there is a large Ora- Pag. 51... tion made to the Vowels, being Judges, by Sigma against Tan, complaining that Tan has bereaved him of many words, which should

begin with Sigma.

Their Tongues are sharper than Actius bis razer. Actius Navius was chief Augur, who (as the flory faith) admonishing Tarq. Prifcus that he should not undertake any action of moment, without first confulting the Augur, the King (shewing that he had little faith in his skill) demanded of him, whether by the rules of his skill, what.

he had conceived in his mind might be done: to whom when Attins had answered it might be done, he bid him take a Whetstone which he had in his hand, and cut it in two with a Razor; which accordingly the Augur did. Livy. And therefore we must conceive it was very sharp. Here the Adage was crossed, Eupès els diarlus, 1. c. novacula

in cotem. Vid. Erasm. Chiliad.

It is not meer Zeal to Learning, or devotion to the Muses, that wifer Princes Patronize the Arts, &c. but a defire to have their names eterniz'd by the memory of their writings. There is a great Scholar, who took the boldness to tell a Prince so much. Est enim bonerum principum cum viris eruditis tacita quedam naturalifq; focietas, ut alteri ab alteris illustrentur, ac dum fibi mutuo suffragantur, & gloria principibus. & dollis authoritas concilietur. Politian. Ep. Ludevic. Sfort. que extat, lib. II. Ep. ep. 1. And to this Opinion astipulates a Country-man of our own, whose words are these : Ignotius effet Lucilius, nifi cum Epistola Seneca illustrarent. Laudibus Cafareis plus Virgilius & Varus Lucanufg; adjecerunt, quam immenfum illud ararium quo urbem & orbem Spoliavit. Nemo prudentiam Ithaci aut Pelida vires agnosceret, nisi eas Homerus divino publicaffet ingenio : unde nibil mibi videtur consultius vire ad gloriam properanti fidelium favore scriptorum. Joan. Sarisb. Polycrat. 1.8. c. 14. And that Princes are as much beholding to the Poets Pens as their own Swords, Horace tells Cenforinus with great confidence. Od. 8, 1. 4. Non incifa notis, &c.

St. Paul that calls the Cretians lyars, doth it but indirecily, and upon quotation of one of their own Poets. That is, Epimenides; the place is, Tit. 1. v. 12. where Paul useth this verse, taken out of Epime-

nides.

र्मितराह बेले प्रधांडक, सवस्त्रे जिस्रांव, व्रवह्महा बंहुवा

It is as bloody a thought in one way, as Nero's was in another. For by a word we wound a thousand. I suppose he alludes to that passage in Sucton, in the life of Nero, where he relates that a certain person upon a time, spoke in his hearing these words,

'דעוד שמינוען בעוץ שמינושל דעות שמינות אונו וויצות אונו וויצות אונו וויצות שוויצות שוויצות אונות אונות

i. e. When I am dead let Earth be mingled with Fire. Whereupon the Emperour uttered these words, 'Fuz are, i.e. Tea whilf I live: there by one word, he express da cruel thought, which I think is the thing he meant; this is more cruel than the wish of Caligula, that the people of Rome had but one Neck, that he might desiroy them all at a blow.

I cannot believe the story of the Italian, &c.] It is reported that a certain Italian having met with one that had highly provoked him, put a Ponyard to his breast, and unless he would blaspheme God, told him he would kill him, which the other doing to save his life, the Italian presently kill'd him, to the intent he might be damned, having no time of Repentance.

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Sect. 4.

Pag 52.

Scci. 6. Pag. 54. I have no fins that want a Name.] The Author in cap. ult. lib. ult. Pfeudodox. Speaking of the Act of carnality exercised by the Egyptian Pollinctors with the dead carcasses, faith we want a name for this, wherein neither Petronius nor Martial can relieve us; therefore I conceive the Author here means a venereal sin.

This was the Temper of that Leacher that carnal'd with a Statua.] The Latine Annotator upon this hath these words: Roma refertur de Hispano quedam. But certainly the Author means the Statue of Venus Guidis made by Praxiteles, of which a certain young man became so enamoured, that Pliny relates, Frunt amore captum cum delituisses noctus simulachro chassifie, ejusq, cupiditatis este indicem maculum. Lu-

cian also has the story in his Dialog [Amores.]

And the constitution of Nero in his Spintrian recrestions. The Author doth not mean the last Nero, but Tiberius the Emperour, whose name was Nero too; of whom Sueton Secessiu vero Capreensi etiam sellariam excogitavit sedem arcanarum libidinum, in quam undique conquistit puellarum & exoletorum greges monstrosiq, concubitus repertores, quos spintrias appellabat, triplici serie connexi invicem incestarent se coramipso, ut adspeciu desicientes libidines excitaret. Suct. in Tib. 43.

I bave seen a Grammariam toure and plume bimself over a single line Scii. 8. in Horace, and shew more pride, &c.] Movent mihi stomachum Gram-Pag. 56. matista quidam, qui cum duas tenuerint vocabulorum origines ita se ostentant, ita venditant, ita circumserunt jastabundi, ut præ ipsis pro nibilo babendos Philosophos arbitrentur. Picus Mirand in Ep. ad Hermol. Barb. quæ exstat lib. nono Epist. Politian.

Garsio quisq, duas postquam scit jungere partes, Sic stat, sic loquitur, velut omnes noverit artes.

I cannot think that Homer pin'd away upon the Riddle of the Fishermen. The History out of Plutarch is thus: Sailing from Thebes to the Island lon, being landed and set down upon the shore, there happen'd certain Fishermen to pass by him, and he asking them what they had taken, they made him this Enigmatical answer, That what they had taken, they had less behind them; and what they had not taken, they had with them; meaning, that because they could take no Fish, they went to loose themselves; and that all which they had taken, they had killed, and less behind them, and all which they had not taken, they had with them in their clothes: and that Homer being struck with a deep sadness because he could not interpret this, pin'd away, and at last dyed. Pliny alludes to this Riddle, in his Ep. to his Friend Fusus, where giving an account of spending his time in the Country, he tells him, Venor aliquando, sed non sine pugillaribus, ut quamvis nibil ceperim, non nihil reseram. Plin, Ep. lib 9. Ep. 36.

Or that Aristot. — did ever drown bimself upon the flux or reflux of Euripus.] Laertius reports that Aristotle dyed of a disease at 63 years of age. For this and the last, see the Author in Psendodox.

Aristotle doth but instruct us as Plato did him, to confute himself.]

In the matter of Idea's , Eternity of the world, &c.

Sect. 9. Pag. 57.

I could becontent that we might procreate like trees without conjunction, or that there were any way to perpetuate the world without this trivial and vulgar way of Coition : It is the foolishest act a wife man commits in all bis life] There was a Physitian long before the Author. that was of the fame opinion, Hippocrates; for which vide Agel, 1,19. Noch. Attic. c. 2. And fo of late time was Paracelfus, who did undertake to prescribe a way for the generation of a man without coition. Vide Campanel, defensurerum, in Append. ad cap. 19.1. 4. Monfieur Montaignes words on this subject, are worth the reading; these they arc : Fetromve apres tout, que l'amour n' ft autre chose que la faim de cette jonyssance, & considerant maintesfou ridicule titillation de se plaifer par ou il nous tient, les absurdes movements, escervelez & eftourdis dequoy il agit Zenon & Cratippus, ceste rage indiscrete, ce visage inflamme de fureur & de cruante an plus donx effect de l'amour, & puis cette morque grave severe & extatique en une action fi folle, & que la supreme volupte ave du trainsy & du plaintiff commer la doleur, je croye qu'au se jone de nous, & que c'est par industrie que nature nous a laisse la plus trouble de nos actions les plus communes pour nous esgaller par la & apparier les fols & les Sages : & nous & les bestes, le plus contemplatif & prudent bomme quand je l'imagin en cette affette je le tien pour un affronteur, de faire le prudent & le contemplatif, cesont les pieds du paon qui abbatent fou orgueil, nous mangeous bien & beavons comme les bestes, mais ce ne sont pas actions, qui empeschent les operations de nostro ame, en cellef-la nous gradous nostre advantage sur elles : cettecy met tout autre pensee sans le joug abruist & abesit parson imperieuse authorite taute la Theology & Philosophy, qui est en Platon & fi il ne fen plaint pas, par tout allieurs veus pouvez garder quelque decence toutes autres operations souffrent des Regles & bonestete cettecy ne fe peut seulement imaginer que vitiense ou ridicule trouvezy pourvoir un proceder suge & discret. Alexander diseit qu'il se cognossit principalement mortel par cette action & par le dormir : le sommeil influque & supprime les facultez de nostre ame, la besoigne les absorbe. & diffipe de mesme: Certes c'est une marque non seulement de nostre corruption originelle, mais aufi de nostre vanite & disformite. D'um coste nature nous y pousse ayant attache a ce desire la pius noble, utile & plaisante de toutes les operations, & la nous laisse d'autre part accusar & juyr romme instlent & dishoneste, en rougir & cecommander l'abstinence, &c Montaign liv. 3. chapit. 5. And

And may be inverted on the worft.] That is, that there are none fo Sed. 10. abandoned to vice, but they have some sprinklings of vertue. There Pag 59. are scarce any so vitious, but commend virtue in those that are endued with it, and do fome things laudable themselves, as Plin, saith in Panegyric. Machiavel upon Livy, lib. 1. cap. 27. fets down the ensuing relation as a notable confirmation of this truth. Julius Pontifex, eius noninis secundus, anno salutis 1505. Bononiam exercitus duxit, ut Bentivolorum familiam, que ejus urbis imperium centum jam annos tenuerat. loco moveret. Eademque in expeditione etiam Johannem Pagolum, Bagloneum tyrannum Perusinum sua sede expellere decreverat, ut cateros item, aui urbes Ecclesia per vim tenerent. Ejus rei causa cum ad Perusinam urbem accessisset, & notum jam omnibus esset quid in animo haberet : tamen impatiente more, noluit exercitus expectare, sed inermis quasi urbem ingressus est, in quam fohannes Pagolus defendendi sui causa, non exiguas copias contraxerat. Is autem codem furore, quo res suas administrare solebat, una cum milite, cui custodiam sui corporis demandarat, sese in pontificis potestatem dedidit; à quo abductus est relictusque alius, qui Ecclesia nomine urbem gubervaret. Has ipfa in re magnopere admirati sunt viri Sapientes, qui Pontificem comitabantur, cum Pontificis ipsius temeritatem, cum abjectum vilema; fohannes Pagoli animum : nec canfam intelligebant, ob quam permotus idem Pagolus, hostem suum inermem (anod iki cum perpetua nominis (ui memoria facere licebat) non subit oppresserit, & tam pretiofa spolia diripuerit; cum Pontifex urbem ingressus fuisset. Cardinalibus tantum suis stipatus, qui pretiosissimas quasq; suarum rerum secum habebant. Neque enim credebatur Pagolus a tanto facinore vel sua bonitate, vel animi conscientia abstinuisse : quod in hominem sceleratum, qui & propria sorore utebatur, & consabrinos nepotesque dominandi cansa e medio suftulerat hunsmodi pii affectus cadere non viderentur. Cum igitur hac de re varia effent sapientum virorum sententa ; concluserunt tandemidei accidisse, quodita comparatum sit, ut homines neque plane pravi esse queant, peque perfecte boni. I Pravi perfecte effe nequeant, propterea quod, ubi tale quoddam (delus est, in quo aliquid magnifici ac generosi insit, id patrare non audeant. Nam cum Pagolus neg; incestum prius horrnisset, neque patricidio abstinuisset : tamen cun oblata effet oscasio, pravi quidem sed memorabilis, atque aterna memoria facinoris patrandi, id attentare non ausus fuit, cum id sine infamia prestare licuisset, quod rei magnitudo omnia priora scelera obtegere potuisset, & a periculo conservare. Quibus accedit, quod illi gratulati fuissent etiam quam plurimi, a primis ausus effet Pontificious monstrare rationem dominandi; totiusque humana vita usum ab illis nimis parvi pendi.

Poysons contain within themselves their own Antidote. The Poyson of a Scorpion is not Poyson to it self, nor the Poyson of a Toad is not Poyson to it self; so that the sucking out of Poyson from persons insected by Psylls, (who are continually nourished with veno-

mous aliment) without any prejudice to themselves, is the less to

be wondred at.

The man mithout a Navil yet lives in me. The Latine Annotator hath explicated this by Homo non perfectus, by which it seems he did not comprehend the Authors meaning; for the Author means Adam, and by a Metonymic original sin; for the Navil being onely of use to attract the aliment in usero materno, and Adam having no mother, he had no use of a Navil, and therefore it is not to be conceived he had any; and upon that ground the Author calls him the man without a Navil.

Sect. 11. Pag. 61. Our groffer memories have then so little hold of our abstracted understandings, that they forget the story, and can only relate to our amaked senses a confused and broken tale of that that hath passed. For the most part it is so. In regard of the Authors expection of forgetting the story, though otherwise it be not very pertinent to this place. I shall set down a relation given by an English Gentleman, of two dreams that he had, wherein he did not forget the story, but (what is more strange) sound his dreams verified. This it is.

Whilst I lived at Prague, and one night had fit up very late drinking at a feath, early in the morning the Sun beams glancing on my face, as I lay in my bed, I dreamed that a shadow passing by told me that my Father was dead; at which awaking all in a (wear, and affected with this dream, I role and wrote the day and hour, and all circumstances thereofin a Paper-book, which book with many other things I put into a Barrel, and fent it from Prague to Stode, thence to be conveyed into England. And now being at Nurenburgh, a Merchant of a noble Family well acquainted with me and my friends, arrived there, who told me my Father dyed some two months ago. I lift not to write any lyes, but that which I write. is as true as strange. When I returned into England some four years after, I would not open the Berrel I fent from Prague, nor look into the Paper-book in which I had written this dream, till I had called my Suiters and some friends to be witheffes, where my felf and they were altonished to see my written dream answer the very day of my Fathers death.

I may lawfully swear that which my Kinsman hath heard witnessed by my brother Henry whilst he lived that in my youth at Cambridge, I had the like dream of my Mothers death, where my brother Henry living with me, early in the morning I dreamed that my Mother passed by with a sad countenance, and told me that she could not come to my Commencement: I being within five months to proceed Master of Arts, and she having promised at that time to come to Cambridge. And when I related this dream to my brother, both

of

of us awaking together in a sweat, he protested to me that he had dreamed the very same; and when we had not the least knowledge of our Mothers sickness, neither in our youthful affections were any whit affected with the strangeness of this dream, yet the next Carrier brought us word of our Mothers death, Mr. Fiennes Morison in his Itinerary. I am not over-credulous of fuch relations, but methinks the circumstance of publishing it at such a time, when there were those living that might have disproved it, if it had been false, is a great argument of the truth of it.

I wonder the fancy of Lucan and Seneca did not discover it] For they Sect. 12.

had both power from Nero to chuse their deaths.

Pag. 61.

To conceive our selves Urinals is not so ridiculous. Reperti suns Ga- Sect. 13. leno & Avicenna testibus qui se vasa sicilia crederent, & idcirco bomi- Pag. 63. num attacium ne confringerentur solicite fugerent. Pontan, in Attic, bellar. (Hift. 22.) Which proceeds from extremity of Mclancholy.

Aristot. is too severe, that will not allow us to be truely liberal with-

ent wealth,] Ariftot. l. 1. Etbic. c. 8.

Thy will be done though in mine own undoing 7 This should be the Sect. 15. wish of every man, and is of the most wife and knowing, Le Christien Pag. 65. plus bumble & plus sage & meux recognoissant que ce'ft que de lay se rapporte a son createur de choifir & ordonner ce qu' el luy fagt. Il ne le supplie dautre chofe que fa volunte foite faite. Montaign.

FINIS.

Religio Medici.

of we are king together in a freque, he protefled no me that he all described the very time; and when we had not the leaft the all her of a compared the very time; and when we had not the leaft the all her all her a compared to the frequency of the dream type in a leaft to the dream type in a leaft to the frequency of the most over-calculates of many relations of many relations at most relation to the frequency of the frequency

In well a long through wedSence ale her sifter if I is

Les bouters were troup Wood of their deaths.

Arithogs as an leaver, there mail that allow us to be armely thereof within

or wealth] Anglos. L. v. Ell . c. S.

I be wise describing trams own undaing I This hould be he is in the will of every men, and is of the good wife and knowing. Le Christie is good transhumble of his page & memor regnet from que ce's and ce has forest and every a son every and the holfs of another ce qu'e of his face. It at higher the form is transhumble of the face. It at higher the come is transhumble filterials. Making the

FINIS.

OBSERVATIONS

UPON

RELIGIO MEDICI.

Occasionally Written

By Sr. Kenelm Digby, Knight.

The fifth Edition,

Corrected and enlarged,

LONDON,

Printed for Andrew Crook, 1672.

OBSERVATIONS

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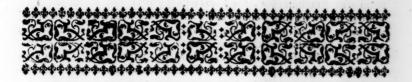
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OBSERVATIONS

UPON

RELIGIO MEDICI.

To the Right Honourable Edward Earl of Dorset, Baron of Buckburst, &c.

My Lord,

Received yesternight, your Lordships of the nineteenth current, wherein you are pleased to oblige me, not only by extream gallant expressions of favour and kindness, but likewise by taking fo far into your care the expending of my time, during the tediousness of my restraint, as to recommend to my reading a Book, that had received the honour and lafeguard of your approbation; for both which I most humbly thank your Lordship. And fince I cannot in the way of gratefulness express unto your Lordthip as I would, those hearty sentiments I have of your goodness to me; I will at the least endeavour, in the way of Duty and Observance, to let you fee how the little needle of my Soul is throughly touched at the great Loadstone of yours, and followeth suddenly and strongly. which way foever you becken it. In this occasion, the Magnetick motion was impatient to have the Book in my hands, that your Lordthip gave so advantagious a Character of; whereupon I fent presently (as late as it was) to Pauls Church yard, for this Favourite of yours. Religio Medici: which after a while found me in a condition fit to receive a Bleffing by a visit from any of such Master-pieces, as you look upon with gracious eyes; for I was newly gotten into my Bed. This good natur'd creature I could eafily perswade to be my Bed-fellow . and to wake with me, as long as I had any edge to entertain my felf with the delights I sucked from so noble a conversation. And truly (my Lord) I closed not my eyes, till I had enricht my felf with, (or at least exactly surveyed)all the treasures that are lapped up in the folds of those few sheets. To return only a general commendation of this curious Piece, or at large to admire the Authors Spirit and Imartness, were too perfunctory an accompt, and too flight an one, to fo difcerning and steddy an eye as yours, after so particular and encharged a Summons to read heedfully this discourse. I will therefore prefume to blot a sheet or two of Paper with my reflections upon fundry paffages through the whole Context of it, as they shall occur to my remembrance. Which now your Lordship knoweth, this Packet is not so happy as to carry with it any one expression of my obsequiousness to you. It will be but reasonable, you should even here, give over your further trouble of reading, what my respect ingageth me to the writing of.

Whose first step is ingenuity and a well natur'd evenness of Judgment, shall be sure of applause and fair hopes in all men for the rest of his Journey. And indeed (my Lord) me thinketh this Gentleman setteth out excellency possed with that happy temper; and sheweth a great deal of Judicious Piery in making a right use of the blind zeal that Bigots loose themselves in. Yet I cannot satisfie my Doubts throughly, how he maketh good his professing to follow the great Wheel of the Church in matters of Divinity; which surely is the solid Basis of true Religion: for to do so, without jarring against the Conduct of that first Mover by Eccentrical and Irregular Motions, obligeth one to yield a very dutiful obedience to the Determinations of it, without arrogating to ones self a controling Ability in liking or milliking the Faith, Doctrine and Constitutions of that Church which one looketh upon as their North-Star: Whereas, if I missake not, this Author approve the the Church of England, not absolutely, but

comparatively with other Reformed Churches,

My next Reflexion is, concerning what he hath sprinkled (most wittily) in several places, concerning the Nature and Immortality of a humane Soul, and the Condition and State it is in, after the diffolution of the Body. And here give me leave to observe what our Country-man Roger Bacon did long ago; That those Students, who busic themselves much with such Notions, as reside wholly to the fantasie, do hardly ever become Idoneous for abstracted Metaphysical Speculations, the one having Bulkie Foundation of Matter, or of the Accidents of it, to settle upon, (at the least, with one foot:) The other slying continually,

even

even to a leffening pitch, in the Subtil Air. And accordingly, it bath been generally noted, that the exacteft Mathematicians, who converfe alsogether with Lines, Figures, and other Differences of Quantity, bave Seldom proved eminent in Metaphysicks, or speculative Divinity. Nor again, the Professors of these Sciences, in the other Arts. Much less can it be expected that an excellent Physician, whose fancy is always fraught with the material Drugs that he prescribeth his Apothecary to compound bis Medicines of, and whose bands are inured to the cutting up, and eyes to the Inspection of Anatomized Bodies, should easily, and with success. flie bis shoughts at fo towring a Game, as a pure Intellect, a separated and unbodied Soul. Surely this acute Authors sharp wit, had he orderly applied his Studies that way, would have been able to fatisfie himself with less labour; and others with more plenitude, then it hath been the Lot of to dull a brain, as mine, concerning the limmersality of the Soul. And yet, I affure you (my Lord) the little I bilo-Sobby that is allowed me for my thare, demonstrateth this Proposition to me, as well as Faith deliverethit; which our Phyfician will not admit in his. לון לוני ו נטוטכלב ו

To make good this Affertion here, were very unreasonable, fince that to do it (xactly (and without exactness, it were not demonstration) requireth a total Survey of the whole Science of Bodies, and of all the operations that we are conversant with, of a rational Creatures which I having done with all the succinctness I have been able, to explicate so knotty a Subject with, hath taken me up in the first draught neer two hundred sheets of Papers. I shall therefore take leave of this Point, with only this Note, That I take the Immortality of the Sout (under his savour) to be of that Nature, that to them only that are not versed in the ways of proving it by Reason, it is an Article of Faith; to others, it is an evident Conclusion of demonstrative Science.

And with a like short Note, I shall observe, how if he had traced the Nature of the Soul from its sirst Principles, he could not have sufpected it should sleep in the Grave, till the Resurrection of the Body. Nor would he have permitted his compassionative Nature to imagine it belonged to Gods mercy (as the Chiliasts did) to change its condition in those that are damned, from pain to happiness. For where God should have done that, he must have made that anguished Soul another creature than it was (as to make fire cease from being hot, requireth to have it become another thing than the Element of fire;) since, that to be in such a condition, as make hus understand damned souls miserable, is a necessary effect of the temper it is in, when it goeth out of the Body, and must necessarily (out of its Nature) remain in, unvariably for all Eternity; Though, for the Conceptions of the vulgar part of Mankind, (who are not capable of such abstruct notions) it be styled, (and truly too) the sentence and punishment of a severe Judg.

I am extreamly pleased with him, when he faith, There are not Impossibilities enough in Religion for an Active Faith : And no whit less, when in Philosophy he will not be fatisfied with fuch naked terms. as in School's use to be obtruded upon easie minds, when the Master's fingers are not frong enough to unty the Knots proposed unto them. I confess, when I enquire what Light (to use our Authors example) is, I should be as well contented with his silence, as with his telling me it is allus perspienus; unless he explicate clearly to me, what those words mean, which I find very few go about to do. Such meat they swallow whole, and eject it as entire. But were such things Scientifically and Methodically declared, they would be of extream fatisfaction and delight. And that work taketh up the great test part of my formerly mentioned Treatise, For I endeavour to thew by a continued Progress, and not by Leaps, all the Morions of Nature; and unto them to fit intelligibly the terms used by her beft Secretaries; whereby all wild fantaffick Qualities and Moods (introduced for refuges of ignorance) are hanished from Commerce.

In the next place (my Lord) I shall suspect that our Author hath not penetrated into the bottom of thole Condeptions, that deep Scholars have taught us of Kternier a Machinketh the raketh it for all infil nite Extention of time, and a never ending Revolution of continual Succession: which is no more like Eternity, than a gross body is like a pure Spirit. Nay, such an Infinity of Revolutions, is demonstrable to be a Contradiction, and impossible. In the flate of Eternity there is no Succession, no Change Ind Variety! Saulator Magels, it first condition, do not to much is changes thought. a All things, norions and actions that ever were, are, of first be in any creature, are actually present to such an Intellect. And this (my Lord) I aver, not as deriving it from Theologie, and having recourse to beatifick Vision. to make good my Tenet, (for fo , only glorified creatures should enjoy fuch immense knowledged but out of the principles of Nature and Reafon, and from thence thall demonstrate it to belong to the loweff. Soul of the ignorantest wretch whilst he lived in this world, lines damned in Hell. A bold undertaking, you will fay. But I confidently engage my felf to it. Upon this occasion occurreth also a great deal to be faid of the Nature of Predefination (which by the short touches our Author giveth of it, I doubt he quite miffakes) and how it is an unalterable Series and Chain of Courses, producing Infallible (and in respect of them, necessary) Effects But that is too large a Theam to unfold here ; too voft an Ocean to describe, in the fcant Map of a Letter. And therefore I will refer that to a fitter opportunity, fearing I have already too much trespassed upon your Lordships Parience; but that indeed, I hope, you have not had enough to lead be figled, and truly too) the fentence and punifiment of a terestal guide

I am sure, my Lord, that you (who never forgot any thing, which deserved a room in your Memory) do remember how we are told, that Abyssur invocat: So here our Author, from the Abyss of Predestination, talleth into that of the Trinity of Persons, consistent with the Indivisibility of the Divine Nature: And out of that (if I be not exceedingly deceived) into a third of mistaking, when he goeth about to illustrate this admirable Mystery by a wild Discourse of a Trinity in our Souls. The dint of Wit is not foreible enough to dissect such tough Matter; wherein all the obscure glimmering we gain of that inaccessible Light, cometh to us cloathed in the dark weeds of Negations, and therefore little can we hope to meet with any positive Examples to parallel it withal.

I doubt, he also mistaketh, and imposeth upon the several Schools, when he intimateth, that they gainsay this visible worlds being but a Picture or Shadow of the Invisible and Intellectual: which manner of Philosophizing, he attributeth to Hermes Trismegistus; but is every where to be met with in Plato; and is raised since to a greater height

in the Christian Schools.

But I am fure he learned in no good School, nor fucked from any good Philosophy to give an actual Subfiftence and being to first Matter without a Form. He that will allow that a Real Existence in Nature is as superficially tincted in Metaphysicks, as another would be in Mathematicks, that should allow the like to a Point, a Line, or a Superficies in Figures; Thefe, in their strict Notions, are but Negations of further Extension, or but exact Terminations of that Quantity, which falleth under the Consideration of the Understanding, in the present purpose; no real Entities in themselves: so likewise, the Notions of Matter, Form, Act, Power, Existence, and the like, that are with Truth confidered by the Understanding, and have there each of them a diftina Entity, are nevertheles, no where by themselves in They are terms which we must use in the negotiations of our thoughts, if we will discourse consequently, and conclude knowingly. But then again, we must be very wary of attributing to things in their own Natures, fuch Entities as we create in our Underfrandings, when we make Pictures of them there; for there every different confideration, arising out of the different impression which the fame thing maketh upon us, hath a diffind Being by it felf : Wbereas in the thing, there is but one fingle Unity, that sheweth (as it were in a Glass at several Positions) those various faces in our Understanding. In a word, all these words are but artificial terms, not real things, And the not right understanding of them, is the dangerousest Rock that Scholars fuffer thipwrack against.

I go on with our Physicians. Contemplations. Upon every occasion, he sheweth strong parts, and a vigorous brain. His wishes and aims,

and what he pointeth at, speak him owner of a noble and a generous heart. He hath reason to wish that Aristotle had been as accurate in examining the Causes, Nature and Affections of the great Universe he builed himself about, as his Patriarch Galen hath been in the like confiderations upon this little World, Mans Body, in that admirable Work of his De Usu Partium. But no great humane thing was ever born and perfected at onee. It may fatisfie us, if one in our age, buildeth that magnificent Structure upon the others foundations; and especially, if where he findeth any of them unfound, he eradicatesh those, and fixeth new unquestionable ones in their room: But so, as they still, in gross, keep a proportion, and bear a Harmony with the other great Work. This hath now (even now) our learned Countryman done; The knowing Mr. White, (whose name, I believe your Lordship hath met withal) in his excellent Book, De Mundo. newly printed at Paris, where he now refideth, and is admired by the World of Letter'd men there, as the Prodigie of these latter times. Indeed his three Dialogues upon that Subject, (if I am able to judge any thing) are full of the profoundest Learning. I ever yet met withal. And I believe, who hath well read and digested them, will perswade himself, there is no truth so abstrufe, nor hitherto conceived out of our reach, but mans wit may raise Engines to scale and conquer. I affure my felf, when our Author hath thudied him throughly, he will not lament to loud for Aristotles mutilated and defective Philosophy, as in Boccaline Cafar Caporali doth for the lots of Livies thipwracked Decads.

That Logick which he quarrelleth at, for calling a Toad, or Serpens ugly, will in the end agree with his; for no body ever took them to be so, in respect of the Universe, (in which regard, he desendeth their Regularity and Symmetry) but onely as they have relation to

But I cannot so easily agree with him, when he affirmeth, that Devils, or other Spirits in the Intellectual World, have no exact Ephemerides, wherein they may read before-hand the Stories of sortuite Accidents. For I believe, that all Causes are so immediately chained to their effects, as if a perfect knowing Nature get hold but of one link, it will drive the entire Series, or Pedigree of the whole, to its utmost end; (as I think I have proved in my fore-named Treatise) so that in truth, there is no Fortuitness or Contingency of things, in respect of themselves, but only in respect of us, that are ignorant of their certain and necessary Causes.

Now a little Series or Chain and Complex of all outward Circumflances, (whose highest Link, Poets say prettily is fastned to Jupiters Chair, and the lowest is rivetted to every Individual on earth) steered and levelled by God Almighty, at the first setting out of the first Movers I conceive, to be that Divine Providence and Mercy, which (to use our Authors own example) giveth a thriving Genius to the Hillanders, and the like: And not any secret, invisible, mystical Blessing, that falleth not under the search or cognizance of a prudent indagation.

I must needs approve our Authors Equanimity, and I may as justly fay his Magnanimity, in being contented so cheerfully (as he faith) to shake hands with the fading Goods of Fortune, and be deprived of the joys of her most precious bleffings; so that he may in recompence posfess in ample measure the true ones of the mind; like Epicterus, that Master of moral Wisdom and Piety, who taxeth them of high injustice, that repine at Gods Distribution of his Bleffings, when he putteth not into their share of goods, such things as they use no Industry or Means to purchase. For why should that man, who above all things esteemeth his own freedom, and who to enjoy that, sequestreth himself from commerce with the vulgar of mankind, take it ill of his Stars, if such Preferments, Honours, and Applicates meet not him, as are painfully gained, after long and tedious Services of Princes, and brittle Dependances of humorous Favourites, and Supple Compliances with all forts of Natures? As for what he faith of Aftrologie; I do not conceive, that wife men reject it so much for being repugnant to Divinity (which he reconcileth well enough) as for having no folid Rules or ground in Nature. To relie too far upon that vain Art, I judg to be rather folly than impiety, unless in our censure we look to the first Origine of it, which savoureth of the Idolatry of those Heathens, that worshipping the Stars and heavenly Bodies for Deities, did in a superstitious Devotion, attribute unto them the Causality of all Effects beneath them. And for ought I know, the belief of folid Orbs in the Heavens, and their regularly-irregular Motions, forung from the same root. And a like Isanity, I should suspect in Chiromancy, as well as Aftrologie, (especially, in particular contingent Effects) however our Author, and no less a man than Aristotle, seem to attribute somewhat more to that conjectural Art of Lines.

I should much doubt (though our Author sheweth himself of another mind) that Bernardinus Ochinus grew at the last to be a meer Atheist: When after having been first the Institutor and Patriarch of This Story I the Capucine Order (so violent was his zeal then, as no former religi-have but upous Institution, though never so rigorous, was strict enough for him) on relation, he from thence sell to be first an Heretick, then a Jew, and after a yet of a very while became a Turk; and at the last wrote a furious Invective against Boodhand. those, whom he called the three Grand Impostors of the World, among whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Moses and Mannong whom he ranked our Saviour Christ, as well as Moses and Mose

bomet.

I doubt he mistakes in his Chronologie, or the Printer in the name, when he maketh Ptolomy coademn the Alchoran.

He needeth not be fo scrupulous, as he seemeth to be, in averring down rightly, That God cannot do contradictory things, (though peradventure it is not amiss to sweeten the manner of the expression , and the found of the words) for who understandeth the nature of contradiction, will find Non Entity in one of the terms, which of God were implety not to deny peremptorily. For he being in his proper nature Self-Entity, all Being must immediately flow from him, and all Not-Being be totally excluded from that Efflux. Now for the recalling of Time past, which the Angels poled Esdras withal; thereis no contradiction in that, as is evident to them that know the effence of Time. For it is but putting again, all things that had motion. into the same state they were in, at that moment unto which time was to be reduced back, and from thence letting it travel on again by the fame motion, and upon the same wheels it rouled upon before. And therefore God could do this admirable Work, though neither Esdras, nor all the power of Creatures together could do it : And confequently it cannot in this Question be said, that he posed Mortality with what himfelf was not able to perform.

I acknowledge ingenuously, our Physicians experience hath the advantage of my Philosophy, in knowing there are Witches. Yet I am sure, I have no temptation to doubt of the Deity; nor have any unfatisfaction in believing there are Spirits. I do not see such a necessary conjunction between them, as that the supposition of the one must needs infer the other. Neither do I deny there are Witches. I only reserve my Assent, till I meet with stronger motives to carry it. And I consess I doubt as much of the efficacy of those Magical Rules he speaketh of, as also of the finding out of Mysteries by the courteous

Revelation of Spirits.

I doubt his Discourse of an Universal Spirit, is but a wild Fancy: and that in the marshalling of it, he mistaketh the Hermetical Philosophers. And surely, it is a weak argument from a common nature, that subsistent only in our understanding (out of which it hath no Being at all) to inser by parity, an actual Subsistence, or the like, in reality of nature (of which kind of miscarriage in mens discoursings, I have spoken before.) And upon this occasion, I do not see how seasonably he falleth of a sudden from natural Speculations, to a Moral Contemplation of Gods Spirit working in us In which also I would enquire (especially upon his sudden Poetical rapture) whether the Solidity of the Judgment be not outweighed by the airiness of the Fancy. Assuredly one cannot err in taking this Author for a very sine ingenious Gentleman: But for how deep a Scholar, I leave unto them to judg, that areabler than I am.

It he had applied himself with earnest study, and upon right grounds, to search out the Nature of pure Intellects; I doubt not but

his great Parts would have argued more efficaciously, than he doth against those, that between Men and Angels, put only Porphyries difference of Mortality and Immortality. And he would have dived further into the tenour of their Intellectual Operations; in which there is no Succession, nor ratiocinative Discourse; for in the very first instant of their Creation, they actually knew all that they were capable of knowing, and they are acquainted even with all free thoughts, pass, present, and to come; for they see them in their causes, and they see them all together at one instant; as I have in my fore-mentioned Treatise proved at large: And I think I have already touched thus much once before in this Letter.

I am tempted here to fay a great deal concerning Light, by his taking it to be a bare Quality. For in Physicks, no Speculation is more useful, or reacheth further. But to set down such Phanomena's of it, as I have observed, and from whence I evidently collect the Nature of it, were too large a Theam for this place: When your Lordship pleafeth, I shall shew you another more orderly Discourse upon that Subject, wherein I have sufficiently proved it to be a solid Substance

and Body.

In his proceeding to collect an Intellectual World, and in his discoursing upon the place and habitation of Angels; as also in his consideration of the activity of glorified Eyes, which shall be in the state of rest, whereas motion is required to seeing; and in his subtil Speculation upon two Bodies, placed in the Vacuity, beyond the utmost allenclosing Superficie of Heaven (which implieth a Contradiction in Nature) methinks I hear Apelles cry out, Ne suter ultra Crepidam: or rather, it putteth me in mind of one of the Titles in Pantagruels Library, (which he expresset himself conversant in) namely, Questio subtilissima, utrum Chimara in vacuo bombinans possit comedere secundas intentiones; with which short Note I will leave these Considerations; in which, (if time, and other circumstances allowed it) matter would spring up of excellent Learning.

When our Author shall have read Mr. Whites Dialogue of the World, he will no longer be of the Opinion, That the Unity of the world is a conclusion of Faith: For it is there demonstrated by

Reason.

Here the thread of the Discourse inviteth me to say a great deal of the Production or Creation of Mans Soul. But it is too tedious, and too knotty a piece for a Letter. Now it shall suffice to note, that it is not Extraduce and yet hath a strange kind of neer dependance on the Body, which is, as it were, Gods instrument to create it by. This, thus said, or rather tumbled out, may seem harsh. But had your Lordship leisure to peruse what I have written at sull upon this Points I doubt not but it would appear plausible enough to you.

I cannot agree with him, when he seemeth to impute Inconvenience to long Life, and that length of time doth rather impair, than improve us: For furely if we follow the course of Nature, and of Reason, it is a mighty great bleffing; were it but in this regard, that it giveth time leave to vent and boyl away the unquietnesses and turbulencies that follow our paffions, and to wean our felves gently from carnal affections, and at the last to drop with ease and willingness, like ripe fruit from the Tree; as I remember Plotinus finely discourseth in one of his Eneads. For when before the Season, it is plucked off with violent hands, or shaken down by rude and boysterous winds, it carrieth along with it an indigested raw taste of the Wood, and hath an unpleasant aigerness in its juice, that maketh it unfit for use. till long time hath mellowed it : And peradventure it may be so backward, as instead of ripening, it may grow rotten in the very Center. In like manner , Souls that go out of their Bodies with affection to those Objects they leave behind them, (which usually is as long as they can relish them) do retain still even in their Separation, a byas, and a languishing towards them: which is the reason why such terrene Souls appear oftnest in Cameteries and Charnel bonfes, and not that moral one, which our Author giveth. For Life, which is union with the Body, being that which carnal Souls have straightest affection to, and that they are loathest to be separated from; their unquiet Spirit, which can never (naturally) lose the impressions it had wrought in it at the time of its driving out, lingereth perpetually after that dear Confort of his. The impellibility cannot cure them of their impotent defires; they would fain be alive again,

Corpora. Que lucis miseris tam dira cupido.

And to this cause peradventure may be reduced the strange effect, which is frequently feen in England, when at the approach of the Murderer, the flain body suddenly bleedeth afresh. For certainly, the Souls of them that are treacheroufly murdered by furprize, use to leave their Bodies with extream unwillingness, and with vehement indignation against them, that force them to so unprovided and abhorred a passage. That Soul then, to wreak its evil talent against the hated Murderer, and to draw a just and defired revenge upon his head, would do all it can to manifest the Author of the fact. To speak it cannot, for in it felf it wanteth Organs of voice; and those it is parted from, are now grown too heavy, and are too benummed for it to give motion unto. Yet some change it defireth to make in the body, which it hath so vehement inclinations to, and therefore is the aptest for it to work upon : It must then endeavour to cause a motion in the fübtileft

fubtilest and most fluid parts (and consequently, the most moveable ones) of it. This can be nothing but the blood, which then being violently moved, must needs gush out at those places where it findeth listues.

Our Author cannot believe, that the world will perish upon the ruines of its own principles. But Mr. White hath demonstrated the end of it upon natural Reason. And though the precise time for that general Destruction be inscrutable; yet he learnedly sheweth an ingenious Rule, whereby to measure in some fort the duration of it, without being branded (as our Author threatneth) with convincible and Statute-madness, or with impiety. And whereas he will have the work of this last great Day (the Summer up of all past days) to imply annihilation, and thereupon interesseth God only in it: I must beg leave to contradict him, namely in this point; and to affirm, that the letting loofe then of the activest Element, to destroy this face of the World, will but beget a change in it; and that no annihilation can proceed from God Almighty: For his Essence being (as I faid before) felf-existence, it is more impossible that Not-being should flow from him, than that cold should flow immediately from fire, or darkness from the actual presence of light.

I must needs acknowledge, that where he ballanceth Life and Death against one another, and considereth that the latter is to be a kind of nothing for a moment, to become a pure Spirit within one instant, and what followeth of this strong thought, is extream handsomly said,

and argueth very gallant and generous Resolutions in him.

To exemplifie the Immortality of the Soul, he needeth not have recourse to the Philosophert stone. His own store furnisheth him with a most pregnant one of reviving a Plant (the same numerical Plant) out of his own ashes. But under his savour, I believe his experiment will fail, if under the notion of the same, he comprehendeth all the Accidents that first accompanied that Plant; for since in the ashes there remaineth only the fixed Salt, I am very consident, that all the colour, and much of the odour and Taste of it, is slown away with the Volatile Salt.

What should I say of his making so particular a Narration of perfonal things, and private thoughts of his own; the knowledg whereof cannot much conduce to any mans betterment? (which I make account is the chief end of his writing this Discourse) As where he speaketh of the soundness of his Body, of the course of his Diet, of the
coolings of his Blood at the Summer-Solstice of his age, of his neglect
of an Epitaph; how long he hath lived, or may live; what Popes,
Emperours, Kings, Grand-Seigniors, he hath been Contemporary unto, and the time: Would it not be thought that he hath a special
good opinion of himself, (and indeed he hath reason) when he maketh

keth such great Princes the Landmarks in the Chronology of himself? Surely, if he were to write by retale the particulars of his own Story and Life, it would be a notable Romance, since he telleth us in one total Sum, it is a continued Miracle of thirty years. Though he creepeth gently upon us at the first, yet he groweth a Gyant, an Allis (touse his own expression) at the last. But I will not consure him, as he that made Notes upon Balsac's Letters, and was angry with him for vexing his Readers with Stories of his Cholicks, and voiding of Gravel. I leave this kind of expressions, without looking further into them.

In the next place (my Lord) I shall take occasion from our Authors fetting so main a difference between moral Honesty and Vertue. or being vertuous (to use his own phrase) out of an inbred loyalty to Vertue; and on the other fide, being vertuous for a rewards fake; to discourse a little concerning Vertue in this life, and the effects of it afterwards. Truly (my Lord) however he feemeth to prefer this latter. I cannot but value the other much before it, if we regard the nobleness and heroickness of the nature and mind from whence they both proceed: And if we confider the Journeys end, to which each of them carrieth us, I am confident the first yieldeth nothing to the second, but indeed both meet in the period of Beatitude. this point (which is very well worth the wifest mans seriousest thought) we must consider, what it is that bringeth us to this excellent State, to be happy in the other world of Eternity and Immutability. It is agreed on all hands to be Gods Grace and Favour to us : But all do not agree by what steps his grace produceth this effect. Herein I shall not trouble your Lordship with a long Discourse, how that grace worketh in us, (which yet I will in a word touch anon, that you may conceive what I understand grace to be) but will suppole it to have wrought its effect in us in this life, and from thence examine what hinges they are that turn us over to Beatitude and Glory in the next. Some confider God as a Judg, that rewardeth or punisheth men, according as they co-operated with, or repugned to, the grace he gave. That according as their actions please or displease him, he is well affected towards them, or angry with them; and accordingly maketh them, to the purpole, and very home, feel the eff. As of his kindness or indignation. Others that flie a higher pitch, and are so happy,

- Ut rerum poterint cognoscere causas,

do conceive that Beatitude and misery in the other life, are essential that necessarily and orderly slow out of the Nature of those Causes that begot them in this life, without engaging God Almighty to give

give a sentence, and act the part of a Judg, according to the state of our Cause, as it shall appear upon the Accusations and pleadings at his great Bar. Much of which manner of expression, is Metaphorical, and rather adapted to contain vulgar minds in their Duties (that are awed with the thought of a severe Judg, fifting every minute action of theirs) than fuch as we must conceive every circumstance to pass so in reality, as the literal sound of the words seems to infer in ordinary construction: (and yet all that is true too, in its genuine sence.) But, my Lord, these more penetrating men, and that, I conceive, are vertuous upon higher and stronger Motives (for they truly and folidly know, why they are fo) do confider, that what impressions are once made in the spiritual Substance of a Soul, and what affections it hath once contracted, do ever remain in it, till a contrary and diametrally contradicting judgment and affection, do obliterate it, and expel it thence. This is the reason why Contrition, Sorrow, and batred for Sins past, is encharged us. If then the Soul do go out of the Body with impressions and affections to the Objects and pleasures of this life, it continually lingreth after them; and as Virgil (learnedly, as well as wittily) faith,

Qua gratia currum, Armorumque fuit vivis, qua cura nitentes Pascere equos, cadem sequitur tellure repostos.

But that being a State wherein those Objects neither are, nor can be enjoyed, it must needs follow, that fuch a Soul must be in an exceeding anguish, forrow and affliction, for being deprived of them; and for want of that it so much prizeth, will neglect all other contentments it might have, as not having a relish or take moulded and prepared to the favouring of them; but like feavorish tongues, that when they are even scorched with heat, take no delight in the pleafingest liquors, but the sweetest drinks feem bitter to them, by reason of their overflowing Gall: So they even hate whatsoever good is in their power, and thus pine away a long Eternity. In which the sharpness and activity of their pain, anguish, and sad condition, is to be measured by the sensibleness of their Natures : which being then spiritual, is in a manner infinitely more than any torment that in this life can be inflicted upon a dull gross body. To this add, the vexation it must be to them, to see how inestimable and infinite a good they have loft; and loft meerly by their own fault, and for momentary trifles, and childrens play; and that it was so case for them to have gained it, had they remained but in their right senses, and goverhed themselves according unto Reason. And then judg in what a fortured condition they must be, of remorfe and execrating themfelves

selves for their most resupine and sensiels madness. But if on the other fide, a Soul be released out of this Prison of clay and flesh, with affections setled upon Intellectual goods, as Truth, Knowledg, and the like; and that it be grown to an irksome dislike of the flat pleafures of this World ; and look upon carnal and fenfual Objects with a disdainful eye, as discerning the contemptible Inanity in them, that is fet off only by their painted outfide, and above all, that it hath a longing defire to be in the Society of that supereminent Cause of Causes. in which they know are heaped up the Treasures of all Beauty, Knowledg, Truth, Delight, and good whatfoever; and therefore are impatient at the Delay, and reckon all their Abience from him as a tedious Banishment; and in that regard hate their Life and Body, as cause of this Divorce: such a Soul, I say, must necessarily, by reason of the temper it is wrought into, enjoy immediately at the instant of the Bodies diffolution, and its liberty, more Contentment, more Joy, more true Happinels, than it is possible for a heart of flesh to have scarce any scantling of, much less to comprehend.

For immense Knowledg is natural to it, as I have touched before. Truth, which is the adequated and satisfying Object of the Understanding, is there displayed in her own Colours, or rather with-

out any.

And that which is the Crown of all, and in respect of which all the reft is nothing; that infinite Entity, which above all things this Soul thirsteth to be united unto, cannot for his own Goodness fake, deny his Embraces to so affectionate a Creature, and to such an enflamed Love. If he should, then were that Soul, for being the best, and for loving him most, condemned to be the unhappiest. For what Joy could the have in any thing, were the barred from what the fo infinitely loveth? But fince the Nature of superiour and excellent things is to shower down their propitious Influences, wheresoever there is a Capacity of receiving them, and no Obstacle to keep them out (like the Sun that illuminateth the whole Air, if no Cloud, or folid opacous Body intervene) it followeth clearly, that this infinite Sun of Justice, this immense Ocean of goodness, cannot chuse but inviron with his Beams, and replenish even beyond Satiety with his delightfome Waters, a foul fo prepared and tempered to receive them.

Now (tny Lord) to make use of this Discourse, and apply it to what begot it; be pleased to determine, which way will deliver us evenest and smoothest to this happy end of our Journey: To be vertuous for hope of a Reward, and through sear of Punishment; or to be so out of a natural and inward affection to Vertue, for Vertues and Reasons sake? Surely one in this laster condition, not only doth those things which will bring him to Beatitude; but he is so secured, in a

manner

manner, under an Armour of Proof, that he is almost invulnerable; he can scarce miscarry, he hath not so much as an inclination to work contrarily; the Alluring Baits of this World tempt him not; he disliketh, he hateth, even his necessary Commerce with them-On the other fide, the Hireling that steereth his whilst he liveth. course by his Reward and Punishment, doth well, I confess; but he doth it with Reluctance; he carrieth the Ark, Gods Image, his Soul, safely home, it is true, but he loweth pitifully after his Calves, that he leaveth behind him among the Philistines. In a word, he is vertuous; but if he might fafely, he would do vicious things. hence be the ground in Nature, if so I might fay, of our Purgatory.) Methinks two fuch minds may not unfitly be compared to two Maids, whereof one hath a little sprinkling of the Green fickness, and hath more mind to Ashes, Chalk or Leather, than meats of folid and good nourishment, but forbeareth them, knowing the languishing condition of Health it will bring her to . But the other having a ruddy, vigorous and perfect Constitution, and enjoying a compleat, entire Encrafie, delights in no food but of good nouriture, and loaths the other Delights. Her Health is discovered in her looks, and she is secure from any danger of that Malady, whereas the other for all her good Diet, beareth in her Complexion some fickly Testimony of her depraved Appetite; and if the be not very wary, the is in danger of a relapse.

It falleth fit in this place to examine our Authors apprehension of the end of such honest Worthies and Philosophers (as he calleth them) that died before Christ his Incarnation, Whether any of them could be saved, or no? Truly, my Lord, I make no doubt at all, but if any followed in the whole Tenor of their lives, the Dictamens of right Reason, but that their journey was secure to Heaven. Out of the former Discourse appeareth what temper of mind is necessary to get thicther. And, that Reason would dictate such a temper to a perfectly judicious man, (though but in the state of Nature) as the best and most rational for him, I make no doubt at all. But it is most true, they are exceeding sew (if any) in whom Reason worketh clearly, and is not overswayed by Passion and terrene Affections, they are sew that can discorn what is reasonable to be done in every Circumstance.

——Pauci quos equus amavit Jupiter, aut ardens evexit ad etbera virtus, Diù geniti, potnere,—

And fewer, that knowing what is best, can win of themselves to do accordingly, (Video meliora proboque, deteriora sequor, being most mens cases) so that after all that can be expected at the hands of Na-

Nature and Reason in their best Habit, since the lapse of them, we may conclude it would have been a most difficult thing for any man, and a most impossible one for mankind, to attain unto Beatitude, if Christ had not come to teach, and by his example to shew us the

way.

And this was the Reason of his Incarnation, teaching Life and Death: For being God, we could not doubt his Veracity, when he told us news of the other world; having all things in his power, and yet enjoying none of the Delights of this Life, no man should stick at foregoing them, tince his Example sheweth all men, that such a course is best; whereas sew are capable of the Reason of it: And for this last Act, dying in such an assistance manner; he taught us how the securest way to step immediately into perfect Happiness, is to be crucified to all the Desires, Delights and Contentments of this World.

But to come back to our Physician: Truly (my Lord) I must needs pay him, as a due, the acknowledging his pious Discourses to be Excellent and Pathetical ones, containing worthy Motives, to incite one to Vertue, and to deter one from Vice; thereby to gain Heaven, and to avoid Hell. Affuredly he is owner of a folid Head, and of a strong generous Heart. Where he implayeth his thoughts upon such things, as refort to no higher, or more abstruct Principles, than such as occur in ordinary Conversation with the World, or in the common Tract of Study and Learning; I know no man would say better. But when he meeteth with such difficulties as his next, concerning the Resurrection of the Body, (wherein after deep Meditation, upon the most abstracted Principles and Speculations of the Metaphylicks, one hath much ado to solve the appearing Contradictions in Nature) There, I do not at all wonder, he should tread a littleawry, and go astray in the dark, for I conceive his course of life hath not permitted him to allow much time unto the unwinding of such entangled and abstracted Subtilties. But if it had, I believe his Natural parts are such, as he might have kept the Chair from most men I know: For even where he roveth widelt, it is with so much wit and sharpness, as putteth me in mind of a great mans Centure upon Fofeph Scaligers Cyclometrica, (a matter he was not well versed in) That he had rather err so ingeniously as he did, then hit upon Truth in that heavy manner, as the Tefuit his Antagonist stuffeth his Bocks. Most affuredly his wit and smartness in this Discourse, is of the finest Standard, and his infight into teverer Learning, will appear as piercing unto fuch as use not ftrictly the Touchstone and the Test, to examine every piece of the glittering Coyn, he payeth his Reader with. But to come to the Resurrection. Methinks it is but a gross Conception, to think that every Atome of

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the present individual Matter of a Body, every grain of Ashes of a burned Cadaver, scattered by the Wind throughout the World, and after numerous Variations, changed peradventure into the body of another man, should at the founding of the last Trumper be raked together again from all the corners of the Earth, and be made up anew into the same Body it was before of the first Man. Yet if we will be Christians, and relye upon Gods Promises, we must believe that we shall rise again with the same Body that walked about, did eat, drink, and live here on Earth; and that we shall see our Saviour and Redeemer, with the same, the very same eyes, wherewith we now

look upon the fading Glories of this contemptible world.

How shall these seeming Contrarieties be reconciled? If the latter be true, why should not the former be admitted? To explicate this Riddle the better, give me leave to ask your Lordship, if you now see the Cannons, the Ensigns, the Arms, and other Martial Preparations at Oxford, with the same Eyes, wherewith many years agone you looked upon Porphyrie's and Aristotle's leafes there? I doubt not but you will answer me, affuredly with the very fame. Is that Noble and Graceful Perfon of yours, that begetteth both Delight and Reverence in every one that looketh' upon it? Is that Body of yours, that now is grown to fuch comely and full Dimensions, as Nature can give her none more advantagious; the fame Person, the same Body, which your Vertuous and Excellent Mother bore nine Months in her Chaste and Honoured Womb, and that your Nurse gave suck unto? Most certainly it is the same. And yet if you contider it well, it cannot be doubted, but that sublunary matter, being in a perpetual flux, and in bodies which have internal Principles of Heat and Motion, much continually transpiring out to make room for the supply of new Aliment; at the length, in long process of time, all is so changed, as that Ship at Athens may as well be called the same Ship that was there two hundred years before, and whereof by reason of the continual reparations) not one foot of the Timber is remaining in her that builded her at first, as this Rody now can be called the same was forty years agone, unless some higher confideration keep up the Identity of it. Now what that is, let us examine, and whether or no it will reach to our difficulty of the Resurrection. Let us consider then, how that which giveth the Numerical Individuation to a Body, is the Substantial Form. As long as that remaineth the same, though the Matter be in a continual Flux and Motion, yet the Thing is still the same. There is not one drop of the same Water in the Thames, that ran down by White ball yesternight; yet no man will deny, but that is the same River that was in Queen Elizabeth's time, as long as it is supplied from the same Common Stock, the Sea. Though this Example reacheth not home,

it illustrateth the thing. If then the Form remain absolutely the fame after separation from the Matter, that it was in the Matter . (which can happen only to Forms, that fubfift by themselves, as humane Souls) it followeth then, That when soever it is united to Matter again, (all Matter coming out of the same Common Magazine) it maketh again the same Man, with the same Eyes, and all the same Limbs that were formerly. Nay, he is composed of the same Individual Matter, for it hath the same Distinguisher and Individuator, to wit, the fame Form or Soul. Matter confidered fingly by it felf, hath no Diftinction : All matter is in it felf the fame ; we muft fancy it , as we do the indigested Chaos, it is a uniformally wide Ocean. Particularize a few drops of the Sea, by filling a Glass-full of them, then that Glass-full is diftinguished from all the rest of the watery Bulk: But return back those few drops from whence they were taken, and the Glass-full that even now had an Individuation by it self. loseth that, and groweth one and the same with the other main Stock: Yet if you fill your Glass again, where soever you take it up, so it be of the same Uniform Bulk of Water you had before, it is the same Glass-full of Water that you had. But as I said before, this Example fitteth entirely, no more than the other did. In fuch abstraced Speculations, where we must consider Matter without Form (which hath no actual Being) we must not expect adequated Examples in Nature. But enough is faid to make a Speculative man fee, that if God should joyn the Soul of a lately dead man, (even whilst his dead Corps should lie entire in his winding-sheet here) unto a Body made of Earth, taken from some Mountain in America ; it were most true and certain, that the Body he then should lye by, were the same Identical Body he lived with before his Death, and late Resurrection. It is evident, that Samenefs, Thisness, and Thatness, belongeth not to Matter by it felf, (for a general Indifference runneth through it all) but only as it is diffinguished and individuated by the Form. Which, in our case, whensoever the same Soul doth, it must be understood always to be the same matter and Body.

This Point thus passed over, I may peece to it what our Author saith, of a Magazine of Subsistent Forms, residing first in the Chaos, and hereaster (when the World shall have been destroyed by fire) in the general heap of Ashes: out of which Gods Voice did, and shall draw them out, and clothe them with Matter. This Language were handsome for a Poet, or Rhetorician to speak; but in a Philosopher, that should rate single strictly and rigorously, I cannot admit it. For certainly, there are no subsistent Forms of Corporeal things; (excepting the Soul of man, which besides being an Informing Form, hash another particular Consideration belonging to it, too long to speak of here.) But whensoever that Compound is destroyed,

firoyed, the Form perisheth with the whole. And for the Natural Production of Corporeal things, I conceive it to be wrought out by the Action and Passion of the Elements among themselves; which introducing new Tempers and Dispositions, into the Bodies where these Consides pass; new Forms succeed old ones, when the Dispositions are raised to such a height, as can no longer consist with the preceding Form, and are in the immediate Degree to sit the succeeding one, which they usher in. The Mystery of all, which I have at large unfolded in my above-mentioned Treatise of the Immortality of the Soul.

I shall say no more to the first part of our Physicians Discourse, after I have observed, how his Consequence is no good one; where he inserreth, That if the Devils fore-knew, who would be Damned or Saved, it would save them the Labour, and end their work of tempting Mankind to mischief and evil. For whatsoever their Moral Design and Success be in it, their Nature impellest them to be always doing it. For as on the one side, it is Active in the highest Degree, (as being pure Ass., that is, Spirits.) so on the other side, they are Malign in as great an Excess: By the one they must be always working, wheresoever they may work, (like Water in a Vessel sull of holes, that will run out of every one of them which is not stopped:) By the other, their whole Work must be malicious and mischievous. Joyning then both these Qualities together, it is evident, they will always be tempting mankind, though they know they shall be frustrate of their Moral End.

But were it not time that I made an end? Yes, it is more than time. And therefore having once passed the limit that confined what was becoming, the next step carryed me into the Ocean of Errour; which being infinite, and therefore more or less bearing no proportion in it; I will proceed a little further, to take a short Survey of his Second Part, and hope for as easie Pardon after this Addition, to my sudden and indigested Remarks, as if I had enclosed them up

now.

Methinks, he beginneth with somewhat an affected Discourse, to prove his natural Inclination to Charity; which Vertue is the intended Theam of all the Remainder of his Discourse. And I doubt he mittaketh the lowest Orbe or Lembe of that high Seraphick Vertue, for the top and perfection of it; and maketh a kind of humane Compassion to be Divine Charity. He will have it to be a general way of doing good: It is true, he addeth then, for Gods sake; but he allayeth that again, with saying, he will have that good done, as by Obedience, and to accomplish Gods will; and looketh at the Essects it worketh upon our Souls, but in a narrow compass; like one in the vulgar throng, that considereth God as a Judg, and as a Rewarder

warder or a Punisher. Whereas persect Charity, is that vehement Love of God for his own sake, for his Goodness, for his Beauty, for his Excellencie, that carrieth all the motions of our Soul directly and violently to Him; and maketh a man distain, or rather hate all obstacles that may retard his journey to Him. And that Face of it that looketh toward Mankind with whom we live, and warmeth us to do others good, is but like the over-slowing of the main Stream, that swelling above its Banks runneth over in a multitude of little channels.

I am not fatisfied, that in the Likeness which he putterh between God and Man, he maketh the difference between them; to be but fuch as between two Creatures that resemble one another. For between these, there is some proportion; but between the others, none at all. In the examining of which Discourse, wherein the Author observeth, that no two Faces are eyer seen to be perfectly achike, nay, no two Pictures of the same Face, were exactly made so; I could take occasion to insert a subtil and delightful Demonstration of Mr. Whites, wherein he sheweth, how it is impossible that two Bodies (for example, two Bouls) should ever be made exactly like one another; nay, not rigorously equal in any one Accident, as namely in weight, but that still there will be some little difference and inequality between them (the Reason of which Observation, our Author medled not with) were it not that I have been so long already, as Digressions were now very unscasonable.

Shall I commend or censure our Author for believing so well of his acquired knowledg, as to be dejected at the thought of not being able to leave it a Legacy among his Friends? Or shall I examine, whether it be not a high injury to wise and gallant Princes, who out of the generousness and nobleness of their Nature, do patronize Arts and learned Men, to impute their so doing to vanity of desiring praise,

or to fear of Reproach.

But let these pass: I will not engage any that may be-friend him, in a quarrel against him. But I may safely produce Epicietus to contradict film, when he letteth his kindness engulf him in deep afflictions for a friend: For he will not allow his wise man to have an inward relehting, a troubled seeling, or compassion of anothers misfortunes. That disordereth the one, without any good to the other. Let him afford all the affisiances and relievings in his power, but without intermingling himself in others Woe; As Angels, that do us good, but have no passion for us. But this Gentlemans kindness goeth yet surther: he compareth his love of a Friend to his love of God; the Union of Friends souls by affection, to the Union of two Natures in one Christ, by the Words Incurnation. Most certainly he expressed himself

felf to be a right good-natur'd man. But if St. Angustine retracted fo severely his pathetical Expressions for the Death of his Friend, saying, They savoured more of the Rhetorical Declamations of a young Orator, than of the grave Confession of a devout Christian, (or somewhat to that purpose) What centure upon himself may we expect of our Physician, if ever he make any Retraction of this Discourse concer-

ning his Religion?

It is no small misfortune to him, that after so much time spent, and so many places visited in a curious Search, by travelling after the Acquisition of so many Languages; after the wading so deep in Sciences, as appeareth by the ample Inventory, and particular he ma-The refult of all this should be, to professingenuketh of himfelf: oully he had studied enough, onely to become a Sceptick; and that having run through all forts of Learning, he could find rest and fatisfaction in none. This, I confess, is the unlucky fate of those that light upon wrong Principles. But Mr. White teacheth us, how the Theorems and Demonstrations of Physicks may be linked and chained together, as strongly, and as continuedly, as they are in the Mathematicks, if men would but apply themselves to a right Method of Study. And I do not find that Solomon complained of Ignorance in the height of Knowledg; (as this Gentleman faith) but only, that after he hath rather acknowledged himself ignorant of nothing, but that he understood the Natures of all Plants, from the Cedar to the Hyllop, and was acquainted with all the ways and paths of Wildom and Knowledge; he exclaimeth, that all this is but Toyl and vexation of Spirit; and therefore adviseth men, to change humane Studies into Divine Contemplations and Affections.

I cannot agree to his resolution of shutting his Books, and giving over the fearch of Knowledg, and refigning himfelf up to Ignorance, upon the reason that moveth him; as though it were extream Vanity to waste our days in the pursuit of that, which by attending but a little longer, (till Death hath closed the eyes of our Body, to open those of our Soul) we shall gain with ease, we shall enjoy by insusion, and is an accessory of our Glorification. It is true, as soon as Death hath played the Midwife to our second Birth, our Soul shall then fee all Truths more freely, than our Corporal Eyes at our fieft Birth fee all Bodies and Colours, by the natural power ofit, as I have touched already, and not onely upon the grounds our Author giveth. Yet far be it from us, to think that time loft, which in the mean scason we shall laboriously imploy, to warm our selves with blowing a few little Sparks of that glorious fire, which we shall afterwards in one instant leap into the middle of, without danger of Scorching, And that for two important Reasons; (belides several others, too long to mention here) the one, for the great advantage we have by

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Learning in this life; the other, for the huge Contentment that the Acquisition of it here (which applyeth a strong affection to it) will be unto us in the next life. The want of Knowledg in our first Mother (which exposed her to be easily deceived by the Serpents cunning) was the root of all our ensuing Misery and Woe. It is as true (which we are taught by irrefragable Authority) That Omnis peccans ig-And the Well-head of all the calamities and mischies in all the World, confisteth of the troubled and bitter waters of Ignorance, Folly and Rashness; to cure which, the onely Remedy and Antidote, is the falt of true Learning, the bitter Wood of Study, painful Meditation, and orderly Confideration. I do not mean fuch Study, as armeth wrangling Champions for clamorous Schools, where the Ability of fubtil Disputing to and fro, is more prized than the retriving of Truth : But such as filleth the mind with folid and useful notions, and doth not endanger the fwelling it up with windy varities. Besides, the sweetest Companion and entertainment of a well-temper'd mind, is to converse familiarly with the naked and bewitching beauties of those Mistresses, those Verities and Sciences, which by fair courting of them, they gain and enjoy; and every day bring new fresh ones to their Seraglie, where the ancientest never grow old or stale. Is there anything so pleasing, or so profitable as this?

> Nil dulcius est, bene quam munita tenera Edita ductrina sapientum templa serena; Despicere undi queas alios, passimque videre Errare, atque viam palanteis quarere vita.

But now if we confider the advantage we shall have in the other life by our affection to Sciences, and conversation with them in this. it is wonderful great. Indeed that affection is to necessary, as without it we shall enjoy little contentment in all the knowledge we shall then be replenished with: for every ones pleasurein the possession of a good, is to be measured by his precedent Defire of that good, and by the equality of the tafte and relish of him that feedeth upon it. We should therefore prepare and make our taste before-hand by Affuefaction unto, and by often relicking what we shall then be nonrifhed with. That Englishman that can drink nothing but Beer or Ale, would be ill bestead, were he to go into Spain or Italy, where nothing but Wine groweth : whereas a well experienced Goinfre, that can criticize upon the feveral taftes of Liquors, would think his Palate in Paradice, among those delicious Nectars (to use Aretines phrase upon his eating of a Lamprey.) Who was ever delighted with Tobacco the first time he took it? And who could willingly be without it, after he was a while habituated to the use ofit? How

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many examples are there daily of young men, that marrying upon their Fathers command, not through precedent affections of their own, have little comfort in worthy and handfome Wives, that others would passionately affect? Archimedes lost his life, for being so ravithed with the delight of a Mathematical Demonstration, that he could not of a sudden recal his extanted Spirits to attend the rude Souldiers Summons: But instead of him, whose minde hath been always fed with such fub il Diet, how many plain Country Gentlemen doth your Lordship and I know, that rate the knowledge of their Husbandry at a much higher pitch; and are extreamly delighted by converting with that; whereas the other would be most tedious and importune to them? We may then fafely conclude, That if we will joy in the Knowledge we hall have after Death, we must in our hie-time raise within our felves earneft affections to it , and defires ofit, which cannot be barren ones; but will press upon us to gain some Knowledg by way of advance here; and the more we attain unto, the more we shall be in Love with what remaineth behind. To this reason then adding the other, How knowledg is the fureft prop, and guide of our prefent life ; and how it petfecteth a man in that which confiftu! teth a man, his Reason; and how it enableth him to tread boldly, fleadily, constantly, and knowingly in all his ways : And I am confident, all men that fhall hear the Cafe thus debated; will joyn with me in making it a Suit to our Physician, that he will keep his Books open, and continue that Progress he hath so happily begun.

But I believe your Lordship will scarcely joyn with him in his wish, that we might procreate and beget Children without the help of Women, or without any Conjunction of Commerce with that sweet and bewitching Sex. Plato taxeth his sellow Philosopher (though otherwise a learned and brave man) for not facrificing to the Graces, to those gentle Female Godd sies. What thinketh your Lordship of our Physicians bitter censure of that action, which Mahomet maketh the Essence of his Paradice? Indeed, besides those his unkindnesses, or rather frowardnesses, at that tender-hearted Sex (which must needs take it ill at his hands) methinketh he setteth Marriage at too low a rate, which is assuredly the highest and divinest link of humane Society. And where he speaketh of Cupid, and of Beauty, it is in such a phrase, as putteth me in mind of the Learned Greek Reader in Cambridg, his courting of his Mistress out of Stephens his Thesaurus.

My next Observation upon his Discourse, draweth me to a Logical consideration of the Nature of an exact Syllogism: which kind of resiscion, thought use to open the door in the course of Learning and Study; yet it will neer shut it in my Discourse, which my sollowing the three that my Author spinneth, assigneth to this place. If he had well and throughly considered all that is required to that stricts

frict way of managing our Reason, he would not have censured Aristotle for condemning the sourth Figure, out of no other motive, but because it was not consonant to his own Principle; that it would not fit with the Foundations himself had laid; though it do with Reason (saith he) and be consonant to that, which indeed it doth not, at all times, and in all Circumstances. In a perfect Syllogisme, the Predicate must be identified with the Subject, and each extream with the middle term, and so consequently, all three with one another. But in Galen's sourth Figure, the case may so fall out, as these Rules will not be current there.

As for the good and excellency that he considereth in the worst things, and how far from Solitude any man is in a Wilderness; These are (in his Discourse) but equivocal considerations of Good, and of Lowliness. Nor are they any ways pertinent to the Morality of that

part, where he treateth of them.

I have much ado to believe, what he speaketh confidently, That he is more beholding to Morpheus, for Learned and Rational, as well as pleasing Dreams, than to Mercury for smart and facetious Conceptions; whom Satury (it seemeth by his relation) hath looked asquint

upon in his Geniture.

In his concluding Prayer, wherein he summeth up all he wisheth; methinketh his Arrow is not winged with that fire, which I should have expected from him upon this occasion: For it is not the peace of Conscience, nor the bridling up of ones affections, that expresses the highest delightfulness and happiest state of a persect Christian. It is love onely that can give us Heaven upon Earth, as well as in Heaven; and bringeth us thither too: So that the Thusean Virgil had reason to say,

— In alte dolcezze Non si puo gioio, se non amando.

And this Love must be imployed upon the noblest and highest Object, not terminated in our Friends. But of this transcendent and divine part of Charity, that looketh directly and immediately upon God himself; and that is the intrinsecal Form, the utmost Perfection, the scope and final period of true Religion, (this Gentlemans intended Theam, as I conceive) I have no occasion to speak any thing, since my Author doth but transfently mention it; and that too, in such a phrase as ordinary Chatechisms speak of to vulgar Capacities.

Thus, my Lord, having run through the Book (God knows how fleightly, upon so great a sudden) which your Lordship commanded me to give you an account of, there remaineth yet a weightier task upon me to perform, which is, to excuse my self of Presump-

tion, for daring to consider any Moles in that Face, which you had marked for a Beauty. But who shall well consider my manner of proceeding in these Remarks, will free me from that Censure. I offer not at judging the Prudence and Wisdom of this Discourse: These are fit Inquiries for your Lordships Court of highest Appeal: In my inferiour one, I meddle onely with little knotty pieces of particular Sciences (Matine apis instar, operofa parvus earmins singit.) In which it were peradventure a fault for your Lordship to be too well versed; your Imployments are of a higher and nobler Strain, and that concerns the welfare of millions of men:

Tu regere I.nperio Populos (Sackville) memento (Hatibi erunt Artes) pacifque imponere morem.

Such little Studies as these, belong only to those Persons that are low in the Rank they hold in the Commonwealth, low in their Conceptions, and low in a languishing and rusting leisure, such an one as Virgil calleth Ignobile oxium, and such an one as I am now dulled withal. If Alexander or Casar should have commended a tract of Land, as sit to sight a Battel in for the Empire of the world, or to build a City upon, to be the Magazine and Staple of all the adjacent Countries; no body could justly condemn that Husbandman, who according to his own narrow Art and Rules, should censure the Plains of Arbela, or Pharsalia, for being sometimes subject to be overslown; or could tax ought he should say in that kind for a contradiction unto the others commendations of those places, which are built upon higher and larger Principles.

So (my Lord) I am confident I shall not be reproached of unmannerliness for putting in a Demurrer unto a few little particularities in that noble Discourse, which your Lordship gave a general Applause unto; and by doing so, I have given your Lordship the best Account I can of my self, as well as of your Commands. You hereby see what

my entertainments are, and how I play away my time.

Dorset dum magnus ad altum
Fulminat Oxonium bello, victorque volentes
sper populos dat jura; viamq, affectat Olympo:

May your Counsels there be happy and successful ones, to bring about that Peace, which if we be not quickly blessed withal, a general ruine threatneth the whole Kingdom. From Winchester-house the 22 (I think I may say the 23, for I am sure it is Morning, and I think it is Day) of December, 1642.

Your Lordships most humble and obedient Servant, Kenelm Digby.

The Postscript.

My Lord,

Ooking over these loose Papers to point them, I perceive I have forgotten what I promised in the eighth sheet, to touch in award concerning Grace: I do not conceive it to be a Quality

infused by God Almighty into a Soul.

such kind of discouring satisfieth me no more in Divinity, than in Philosophy. I take it to be the whole Complex of such real motives (as a solid account may be given of them) that incline a man to Virtue and Piety; and are set on foot by Gods particular Grace and Favour, to bring that work to pass. As for Example: To a man plunged in Sensuality, some great missortune happeneth, that mouldeth his heart to a tenderness, and inclineth him to much thoughtfulness: In this temper, he meeteth with a Book or Preacher, that representeth lively to him the danger of his own condition; and giveth him hopes of greater contentment in other Objects, after he shall have taken leave of his former beloved Sins. This begetteth further conversation with prudent and pious men, and experienced Physicians, in curing the Souls Maladies; whereby he is at last perfectly onwerted, and settled in a course of solid Vertue and Piety.

Now these accidents of his misfortune, the gentleness and softness of his Nature, his falling upon a good Book, bis encountring with a pathetick Preacher, the impremeditated Chance that brought him to hear his Sermon, his meeting with other worthy men, and the whole Concatenation of all the intervening Accidents, to work this good effect in him; and that were ranged and disposed from all Eternity, by Gods particular goodness and providence for his Salvation; and without which he had inevitably been damned: This Chaine Canjes, ordered by God to

produce this effect, I understand to be Grace.

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